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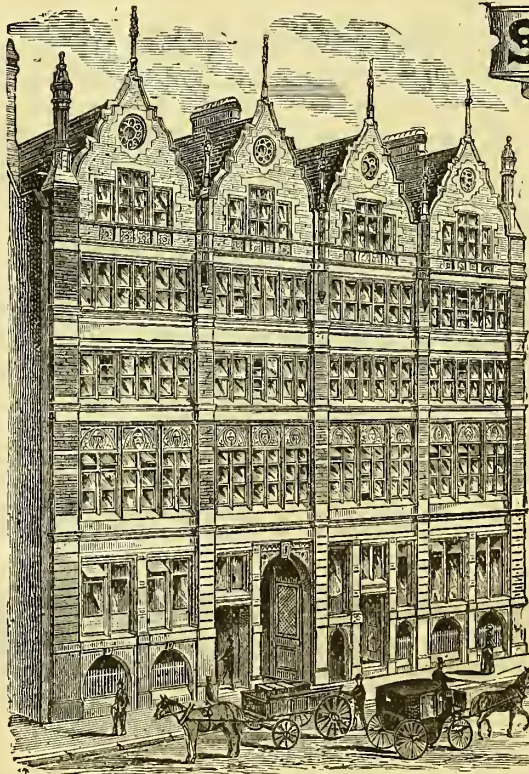


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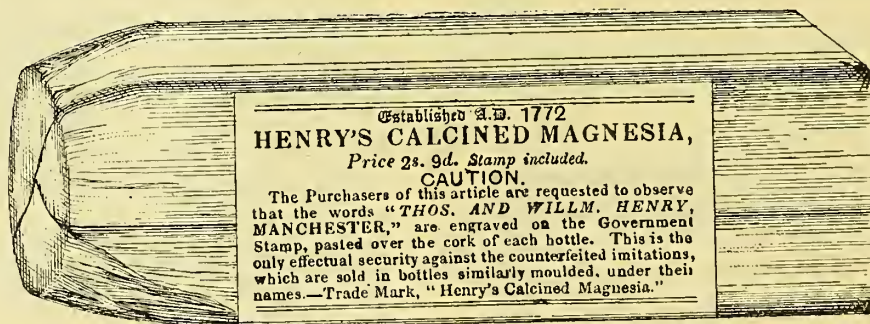
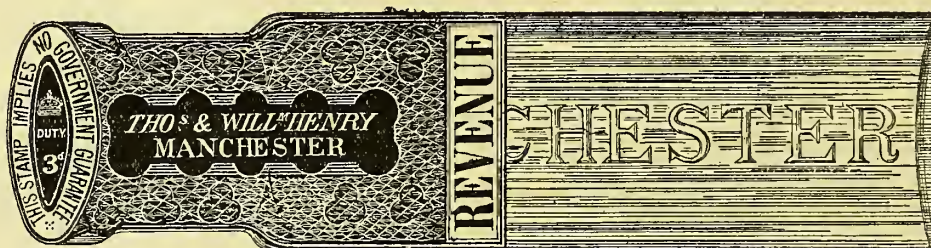
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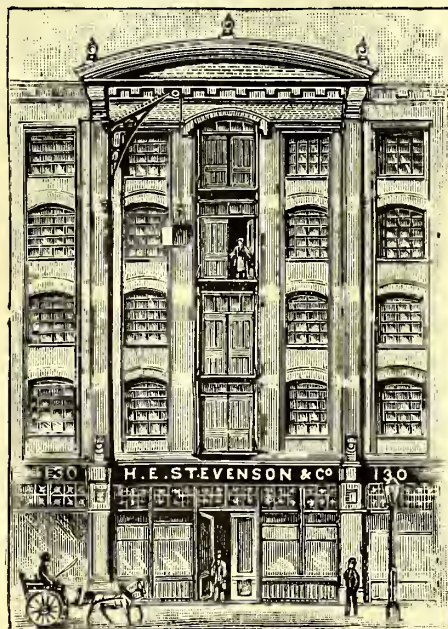
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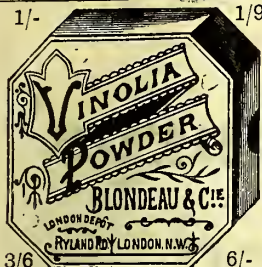
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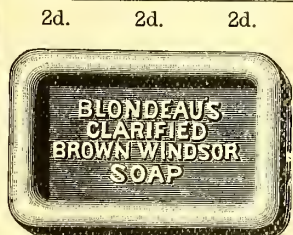
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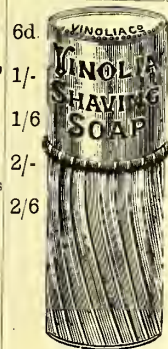
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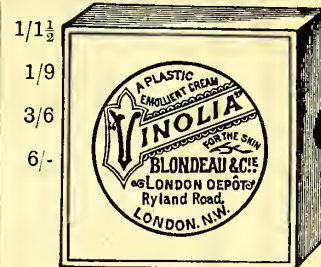


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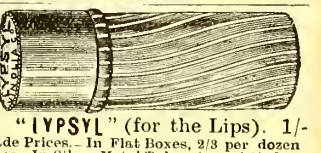
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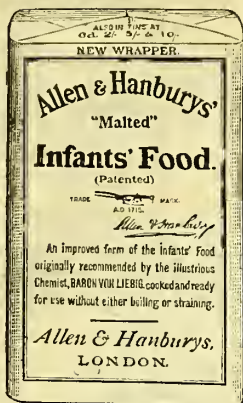
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The LANCET, July 24, 1880, writes:

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**THE PATENT MALTED FARINACEOUS FOOD**, prepared by ALLEN & HANBURY'S, is the result of a practical application of the advice of LIEBIG, and the benefits accruing from its use verify in a remarkable manner his predictions of the value and efficacy of such a Food. It is a *partially* predigested food, having as a basis a carefully cooked wheaten flour, specially selected on account of the large amount of gluten contained in it. To this are added the active and nutritive constituents of pure malt in a *soluble form*. This food thus combines all the advantages of Malt foods hitherto introduced, and contains all that is *valuable* in Malt, whilst all that is irritating and indigestible is rejected. It, moreover, is not so entirely predigested as to leave nothing for the infant's stomach to perform, yet it is readily assimilated by the most feeble, the starch granules being thoroughly broken in the process of cooking, and rendered partially soluble by their subsequent admixture with the soluble portions of the Malt. Although a much more costly food to produce than that made by the more clumsy expedient of merely adding ground malt to baked flour, it is supplied to the public at prices, to say the least, not higher than those charged for such foods, and preference is readily given to it wherever a fair trial has been made.

**NOTE.**—It has been publicly stated that the use of Malt *Meal* in Malted Food is in accordance with Baron Liebig's direction. How far this is misleading a reference to his own words will show. In his well-known work on this subject, while giving instructions for the preparation of a Malted Food suited for Infants, he draws special attention to the danger of allowing Malt *Meal* to be present in any food administered to Infants, and in doing so uses the following emphatic language:—

*"Malt finely powdered produces food causing diarrhœa. This originates from the sharp-pointed shafts of the Malt, which in pounding remain with the pounded malt, and affect the bowels of a child like fine needles."*

It has also been stated that a Malted Food prepared with a Malt *Extract* is of less value than one made with Malt *Meal*, by reason of "the rejection of its cuticular portion." This statement is erroneous, for the "*cuticular (or flinty) portion*" is precisely that which Liebig describes as the "*indigestible part which frequently produces irritation in the intestines and diarrhœa,*" and therefore it is with great advantage rejected in the preparation of the Malted Farinaceous Food. In fact, a perusal of all that the late Baron Liebig ever wrote on the use of Malt in the preparation of foods shows that he intended Malt *Extract*, and not Malt *Meal*, to be present in the Malted Food he advised to be given to Infants.

Several so-called Malt Foods have been offered to the public. These generally consist of a little ground Malt mixed with Flour or other farinaceous material, the Malt being in the objectionable condition pointed out by Liebig, and medical men will at once perceive the utter absurdity of the supposition that the Husk and Woody Fibre of the Malted Barley can be made assimilable in an infant's stomach by mechanical means.

The necessary inferiority of these Ground Malt Foods is, therefore, self-evident, and the steadily increasing demand for ALLEN & HANBURY'S Patent Malted Food proves that the profession and the public alike appreciate the practical result of the application of the principles upon which it is manufactured.

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"MESSRS. ALLEN & HANBURY'S."

"H. ERNEST TRESTRAIL, F.R.C.S., M.R.C.P."

**Mrs. HILTON** writes:—

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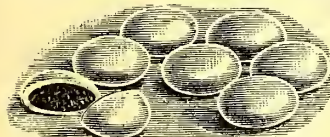
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- " Chlor., 3 and 5 gr.
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- Antifebrin, 3 gr.
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- " Carb., 5 gr.
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- Caffeine Cit., 1 and 2 gr.
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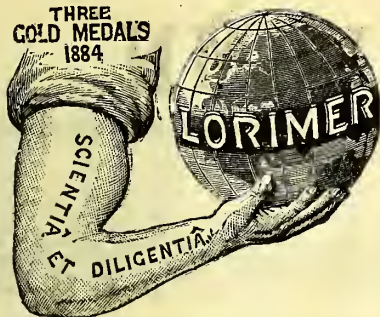
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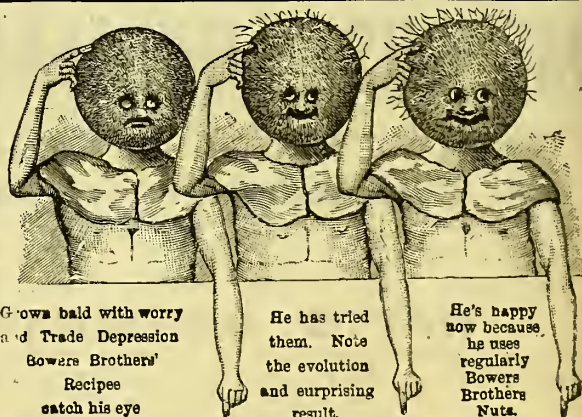
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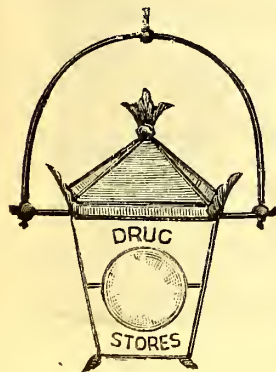
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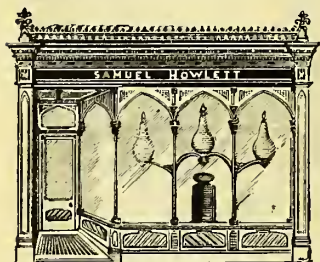
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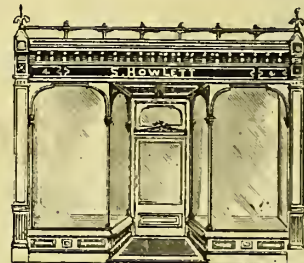
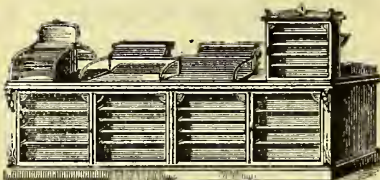
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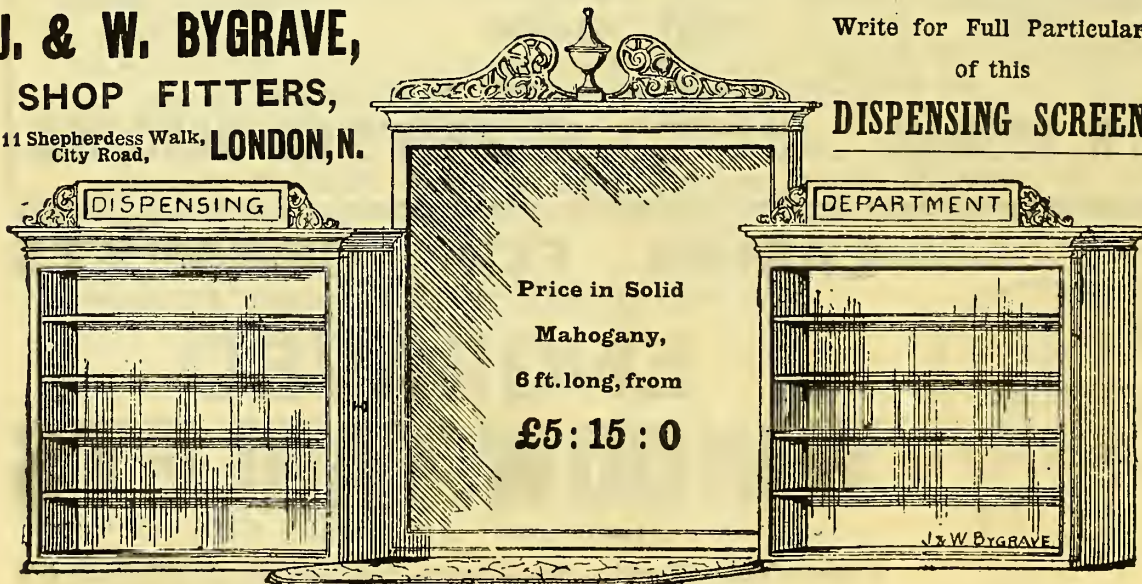
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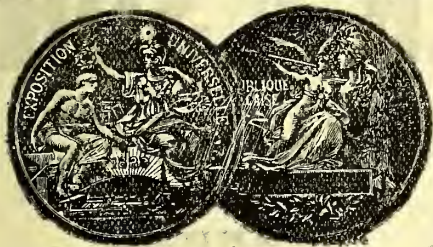
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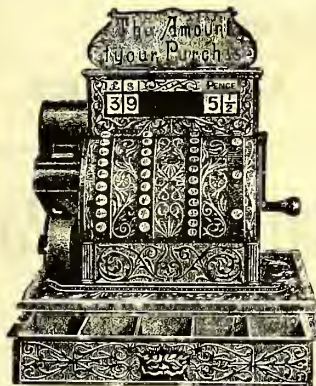
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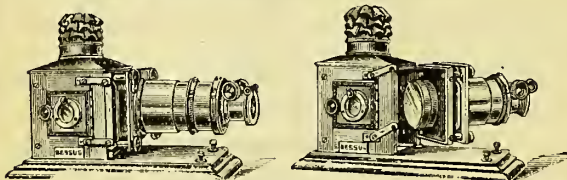
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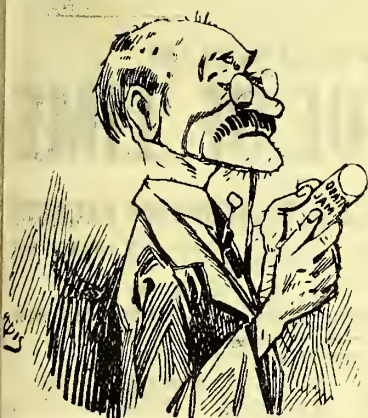
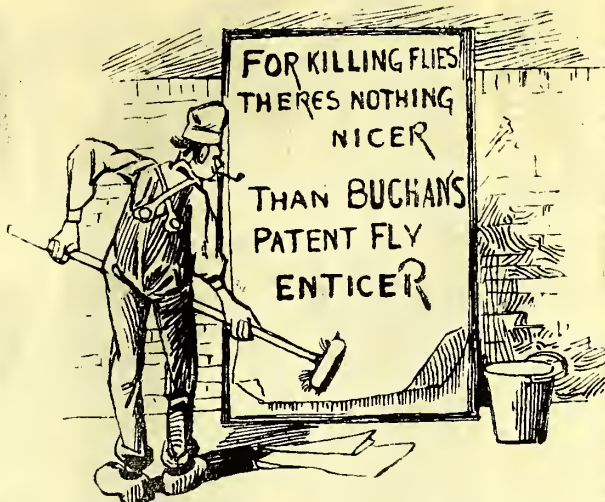
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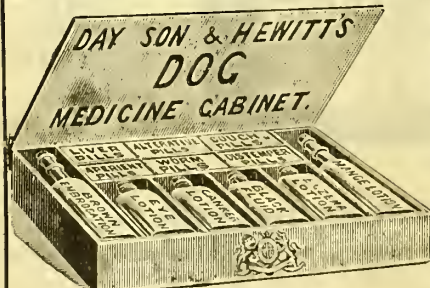
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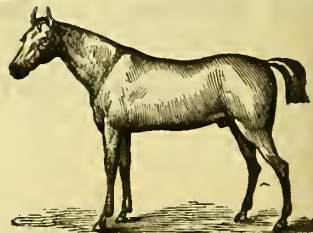
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## TOMLINSON'S DAIRY HELPS.

ESTABLISHED 1842.

**TOMLINSON'S BUTTER POWDER.**—Shortens the time of churning, corrects all unpleasant tastes, increases the yield.

**TOMLINSON'S BUTTER COLOUR.**—A pure Danish preparation, always sweet, never changes, goes farthest, and gives most natural tint.

**TOMLINSON'S "PRESERVATIVE."**—A genuine antiseptic, guaranteed effective for preserving Milk, Butter, Fish, &c. Medical Certificate of Purity.

**TOMLINSON'S EXTRACT OF ANNATTO (pure liquid).**—For Cheese Colouring, &c.

**TOMLINSON'S RENNET.**—For Cheese Making; also a suitable preparation for Curds and Whey. Strength and Purity guaranteed.

**NOTE.**—These useful and pure Dairy Helps are well advertised, and sell readily. Attractive Printed Matter. Liberal Terms.

**BEWARE OF IMITATIONS.**

ONLY ADDRESS—

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Mint Street Chemical Works, LINCOLN. ESTAB. 1842.



"THE MOST POWERFUL GERM DESTROYER AT  
PRESENT KNOWN TO SCIENCE."

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Now  
supplied by the chief  
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And any information  
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Allen & Hanburys,  
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## MASON'S

PERFUMED SOLUTION OF

# CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

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DISINFECTANT (Non-poisonous).

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JONES & COMPANY,  
COPPERFIELD ROAD,  
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LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in  
5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.  
SAMPLES FREE.

WALKER, TROKE & CO.

WHOLESALE DRUGGISTS

65 Bath Street, City Road,

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GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

SOLE MAKERS OF  
GABRIEL & TROKE'S  
GELATINE CAPSULED  
HORSE BALLS.

Alternative, Condition, Cordial Cough,  
Diuretic, Fever, Physic, Worm, Quinine  
Tonic Balls (Registered 81,291)

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.

## JOHN OAKLEY & SONS, LIMITED,

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels,  
Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish,  
Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

## OAKLEY'S WELLINGTON KNIFE POLISH

Prepared expressly for Oakley's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.  
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

OAKLEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

OAKLEY'S "POLYBRILLIANT" (REGISTERED).

A Magio Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste.  
Tins, 1d., 2d., 3d., and 6d. each.

WELLINGTON BLACK BLACK LEAD,

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E.  
Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.



# VELUTINA POLISHING CLOTH.

THE BEST MATERIAL FOR POLISHING PLATE,  
METALS, FURNITURE, GLASS, or ANYTHING WITH A BRIGHT SURFACE.

*There is None Better than the Best.*

**VELUTINA  
POLISHING  
CLOTH**

**Is  
Better  
than  
Chamois  
Leather.**

JANE: Do you use this wonderful VELUTINA POLISHING CLOTH?

MARY: No; we use nothing but dusters and wash-leather.

JANE: I thought so; that explains why things are so dull at your place, compared with ours!

MARY: Why! does the VELUTINA POLISHING CLOTH make all the difference?

JANE: It brightens up everything when used with a little "elbow grease," whether furniture, plate, metals, glass, or one's temper; and John, our coachman, says it's the best thing he ever used for putting a polish on his harness; besides, when it's soiled it can be washed, and when dry it's as good as new, and does not become hard and useless like wash-leather.

**WHO SELL IT? ALL CHEMISTS AND DRUGGISTS.**

To be obtained of all Wholesale Houses in LONDON, MANCHESTER, GLASGOW, &c.

LONDON AGENTS, FOR WHOLESALE EXCLUSIVELY—

**H. PARTINGTON & CO., 42A BOW LANE, E.C.**





We beg the favour of your attention to the following **REPORT** on our Petroleum Jellies  
BY

**Dr. S. RIDEAL, D.Sc.Lond., F.I.C., F.C.S.,**

Lecturer on Chemistry at St. George's Hospital Medical School.

"JANUARY 3rd, 1895.

# PETROLEUM JELLY.

The samples of Petroleum Jelly received on December 20th, 1894, and marked Yellow No. 1, and Yellow No. 2a, have been examined by me, and I find that they possess the following characteristics:—

|                 |     | Melting<br>Point. | Specific Gravity.   |                   | Flashing Point. |         |
|-----------------|-----|-------------------|---------------------|-------------------|-----------------|---------|
|                 |     |                   | Liquid.<br>@ 140°F. | Solid.<br>@ 60°F. | Open.           | Closed. |
| Yellow No. 1... | ... | 95°               | ·868                | ·898              | 432°            | 426·5°  |
| Yellow No. 2a   | ... | 85°               | ·866                | ·895              | 430°            | 414°    |

Both samples were tested for saponifiable fat and resin, but neither of these substances were present. There was no ash in either sample, and in colour and general appearance showed that they had been carefully manufactured. They were also practically free from any taste, and contained no traces of any free acid.

I believe that both qualities are high-class Petroleum Jellies.

In addition to the above tests, I find that Yellow No. 1 passes all the B.P. requirements for Paraffinum Molle, and both being vaselines may be used as the equivalents of 'Vaseline.'

**FOR TROPICAL USE WE MAKE AN EXTRA QUALITY OF A HIGH MELTING POINT.**

*We shall be happy to submit samples and prices upon application, stating quantity and packages required.*

**SNOWDON, SONS & CO.,**

Manufacturers,

MILLWALL, LONDON, E.

Telegrams—"SNOWDRIFT LONDON."

Telephone No.—5127.

We supply through any Wholesale House, in which case please specify for our Brand; see Trade Mark above.



# A NEW SIZE— AN UP-TO-DATE CHANGE.

12 Bride Lane, London,

April 2, 1895.

I respectfully beg to intimate that "Keating's Powder" is now supplied in 3d. Tins, and the sizes of the 6d. and 1s. retail tins are enlarged.

Last year I had to bring actions against a few Chemists and others for acts of gross substitution. I give below an example.

Such conduct is a loss as well to the neighbouring Chemists as myself. I am bound to stop it. If you are aware of any person acting in this manner may I ask you to warn him; or if information be given to me I will hold it absolutely confidential, and take independent steps to prevent the fraud.

**THOMAS KEATING.**

## **KEATING v. WRIGHT (NEWCASTLE).**

MR. JUSTICE NORTH, on the 14th February, 1894, in giving Judgment, said: "There was no difference in principle between verbal representation and representations in writing for the purpose of passing off goods of one person as those of another." . . . He therefore granted an Injunction to restrain the Defendant from selling or offering for sale, as Keating's Insect Powder, powder not made by the Plaintiff, and ordered the defendant to pay the costs of the action"



# THE SANITARY PENNY PENDANT

DISINFECTANT,  
ANTISEPTIC,  
AIR PURIFIER.

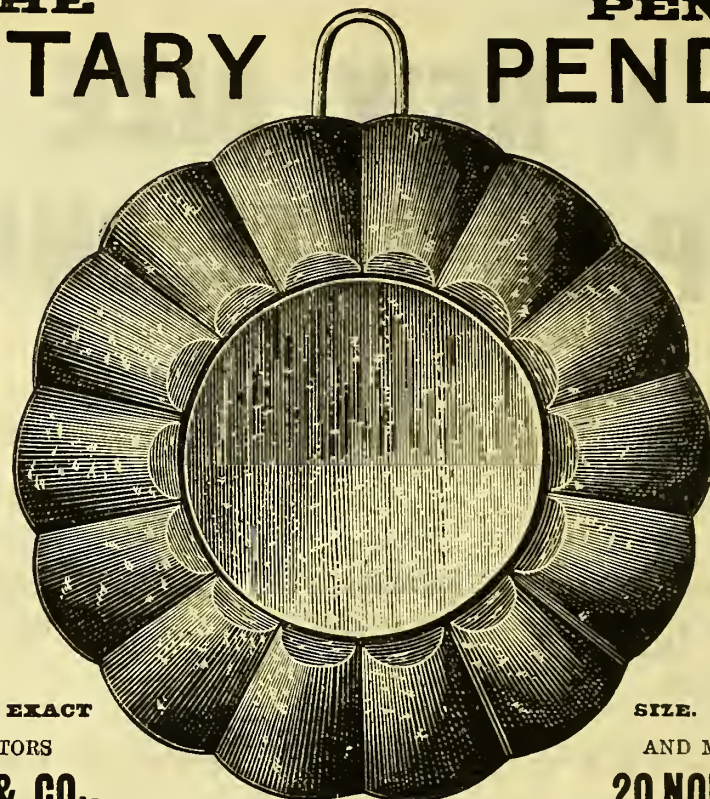
DEODORISER,  
VITALISER,  
INSECT  
DESTROYER.

Trade Price,

**6s.**

per gross.

Through all  
Wholesale Houses.



EXACT

SIZE.

SOLE PROPRIETORS  
**J. BEEDZLER & CO.,**  
Manufacturing Chemists,

[ESTABLISHED 1700.]

AND MANUFACTURERS—  
**20 NORTON FOLGATE,**  
LONDON, E.C.

*A Safeguard against  
Epidemics.  
Keeps Flies from  
Rooms and Moths  
from Clothes.*



**25-LB. TINS. 2 TINS IN CASE.**

THE CHEMIST AND DRUGGIST says:—

“The oil is free from low-boiling terpenes, has  
a specific gravity of 0.9075, and has a  
delightful odour.”



## KANGAROO EUCALYPTUS OIL

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.  
To be obtained of your Wholesale Druggist.



SOLE CONSIGNEES—  
**LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.**

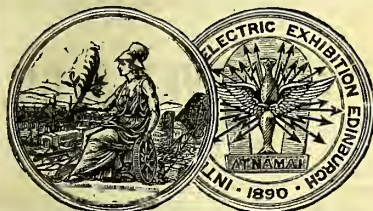
COLONIAL ADDRESS—  
**A. M. BICKFORD & SONS,** Wholesale Druggists  
46 Currie Street, **ADELAIDE.**





# WANDSWORTH CHEMICAL WORKS, LTD.

## CARBOLIC DISINFECTANTS.



Silver Medal, Edinburgh, 1890. Highest Award.

CRUDE CARBOLIC ACID.

95/97 % PALE      "      "  
97/99 % WATER WHITE      "      "



Gold Medal, Jamaica, 1891. Highest Award.

**CARBOLIC POWDER: PINK, WHITE, OR GREY, 5, 10, 15 %, AS SUPPLIED TO HER MAJESTY'S WAR OFFICE.**

**HIGH CLASS CARBOLIC POWDER, 20, 25, & 30 %.**

*See page 281, CHEMIST AND DRUGGIST of February 23rd, 1895.*

## SANITARY FLUID OR CREOSOL

Making a pleasant Milky Fluid. Immediately soluble in cold water. Most efficacious. Largely used by Sanitary Authorities and Public Bodies throughout the world.

**IN BOTTLES, DRUMS, AND CASKS.**

## "PINEOTAS" DISINFECTANTS.

Non-poisonous, most agreeable and fragrant in smell, quite safe in use, do not stain. Thoroughly reliable.

**IN POWDER, FLUIDS, AND OIL.**

**SPECIALLY SUITABLE FOR INDIA & THE EAST.**

**CARBOLIC AND "PINEOTAS" SOAPS, TOOTH POWDER, PETROLEUM JELLY, CHLORIDE OF LIME, ETC.**

**CONCENTRATED FLUID SHEEP DIP**  
(NON-POISONOUS) SOLUBLE IN COLD WATER.

**SMEAR or PASTE DIP (Non-poisonous)**  
**IMPROVED POISONOUS POWDER DIP.**

**FREE FROM (Free) ALKALI.**

One of the Most Powerful Dips in the Market. Guaranteed free from (Free) Alkali or anything that would damage the Fleece or irritate the Skin of the Sheep.

**SPECIAL QUOTATIONS TO SHIPPERS & WHOLESALE BUYERS FOR LARGE QUANTITIES**  
**SAMPLES ON APPLICATION.**

**WORKS & WHARF: THE CAUSEWAY, WANDSWORTH, S.W.**  
Agency—116 PRINCESS STREET, MANCHESTER.      AGENTS WANTED.



# Harvey's Horse Remedies

**HARVEY'S ACONITE POWDERS,**  
For Chronic Cough, Broken Wind, Roaring, &c.

**HARVEY'S WORM AND CONDITION POWDERS.**

**HARVEY'S WATTS' EMBROCATION,**  
or Curb Bottle.

**HARVEY'S WATTS' RED LOTION,**  
For Wounds.

**HARVEY'S HAIR RESTORING OINTMENT.**

**HARVEY'S EDOS,** or Tasteless Purgin Powder.

These Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of Private Horse Owners in the United Kingdom and abroad.

FULLY DESCRIBED IN  
"THE HORSE OWNER'S  
HANDY NOTE BOOK."

96 PAGES. POSTED FREE.

Illustrated Pamphlets, and also Neat Booklets with Chemist's name on, supplied on application.

For Trade Prices see the Lists of the Wholesale Houses, or write for Cash Price List to the Sole Proprietors,

**HARVEY & CO.**  
6 Bachelor's Walk,  
DUBLIN.

Telegraphic Address—  
"REMEDIES DUBLIN."

## PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of  
**GLASS BOTTLES OR FANCY GOODS.**

**SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.**  
**LOOSE OR, HINGED LID BOXES OR TUBES.**

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1s. 3d., post free.

Special set of 6 for Fancy Goods { Plain, 1s. 3d., post free.  
Fancy, 2s. 6d. "

Quotations for quantities, Plain or Printed, per return post.

**ORDERS PROMPTLY EXECUTED.**

**G. C. KIRTLEY,** Printer and Box Maker,  
8 Elswick Court, NEWCASTLE-ON-TYNE.

## FLETCHER'S GOVERNMENT CONTRACTORS.

**CARBOLIC ACID** (pale 97 per cent. or crude) in 5, 10, 20, or 40 gallon lots. Carriage paid. Packages free.

**CARBOLIC POWDERS** from 5 per cent. to 25 per cent.

**DISINFECTING FLUID** (soluble) as used by Town and District Councils, Hospitals, &c. Highly recommended by Dr. W. Collingridge and other eminent authorities. Supplied in bottles, tins, drums, and casks.

**SHEEP DIPS** (fluid, powder, paste). Acknowledged to be the finest ever offered. Packed or in Bulk.

**SPECIAL TERMS TO LARGE BUYERS.**

English and Foreign Agents Wanted.

**FLETCHER BROS. & CO., GRIMSBY.**



**THE MIKADO**  
TRADE MARK  
**MOTH PAPER**

THE MOST RELIABLE, SAFEST, AND CHEAPEST

## MOTH PREVENTIVES

In the Market are

**MIKADO MOTH PAPER**  
**ALABASTRINE TABLETS AND**  
**CRYSTALLISED CAMPHYLENE**

They are Non-Poisonous, and are a Sure Preventive against the Ravages of Moths, Gnats, Flies, and other Insects in Clothes, Rugs, Carpets, Furs, Furniture, &c., &c.

Procurable through all Wholesale Houses, or direct from the Sole Manufacturers,

**FLEMING'S OIL & CHEMICAL CO., LIM.**

101 LEADENHALL STREET, LONDON, E.C.

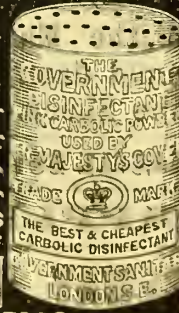
**"THE ONLY GENUINE"**  
**GOVERNMENT DISINFECTANT**

**CHEAPEST AND BEST HOUSE FOR CARBOLIC POWDER IN TINS**

**CARBOLIC POWDER**  
IN DECORATED TINS PER GROSS  
GREEN 15% 6" SIZE 45/-  
& BLACK 1% 1" " 90/-  
BLACK 6" SIZE 1lb, 40/-  
& GOLD 1% 1" " 2lb, 60/-  
ALSO IN CASKS & PACKAGES  
FLUIDS, ACIDS, SOAPS, ETC

TO BE HAD FROM  
ALL WHOLESALE DRUGGISTS

**THE GOVERNMENT SANITARY Co LONDON**



**CHLORIDE OF LIME!**  
IN AIRTIGHT, WATERPROOF & ODOURLESS PACKAGES.

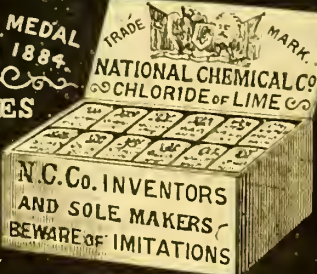
**SILVER I.H.E. MEDAL 1884**

**LIST OF PRICES**

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| 24lb. Box | 1 lb.                         | 6/6  |
| 24lb. "   | 1/2 lb.                       | 7/-  |
| 24lb. "   | 1/4 lb.                       | 8/-  |
| 24lb. "   | (ASSORTED 1lb. 1/2lb. 1/4lb.) | 7/3  |
| 24lb. "   | 1 GROSS                       | 12/8 |

**TO BE HAD FROM ALL WHOLESALE DRUGGISTS!**  
**NATIONAL CHEMICAL CO. LONDON.**

**N.C. Co. INVENTORS AND SOLE MAKERS - BEWARE OF IMITATIONS**





# THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

## LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

### A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

## GIBSON'S VOCAL LOZENGE

**"TOP NOTE PRODUCERS."**

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. Sold in 1/1½ and 2/9 Boxes.

## CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

*With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.*

## VOICE AND THROAT LOZENGES,

FOR SINGERS AND PUBLIC SPEAKERS.

## DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

## CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retail at One Penny each.

## Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins.

[1]

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.

Price Lists sent on application to

# ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

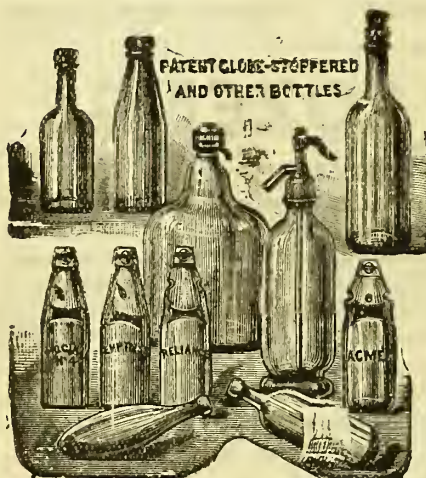
AND  
NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.





# DAN RYLANDS, LIMITED.

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



## GLASS BOTTLE DEPARTMENT.

We have had over TWENTY YEARS' experience in the making of Globe Stopped Bottles, and have manufactured more than all other firms in the World put together. RYLANDS' "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stopped Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aerated-water trade.

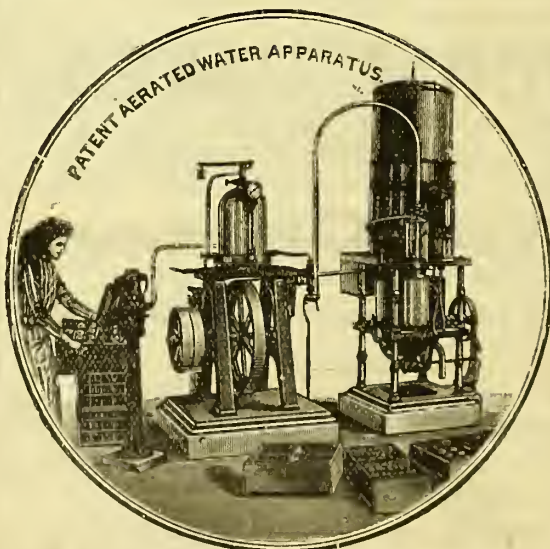
Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

## ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.

## Try "MELOKA," Our New Beverage.



## SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aerated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aerated Water making. They are strong, simple, easily managed, and reliable. Pure Compressed Carbonic Acid Gas supplied.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been nearly 5,000 sold.

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Our PATENT WIRE-BOUND "DINO" BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In our boxes, the wire is well protected from wet and rust, and these boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

# DAN RYLANDS, LIMITED, BARNESLEY, ENGLAND



# CHEMISTS MAY SAFELY INVEST

*In these Machines if they wish to produce their own Aerated Waters.*

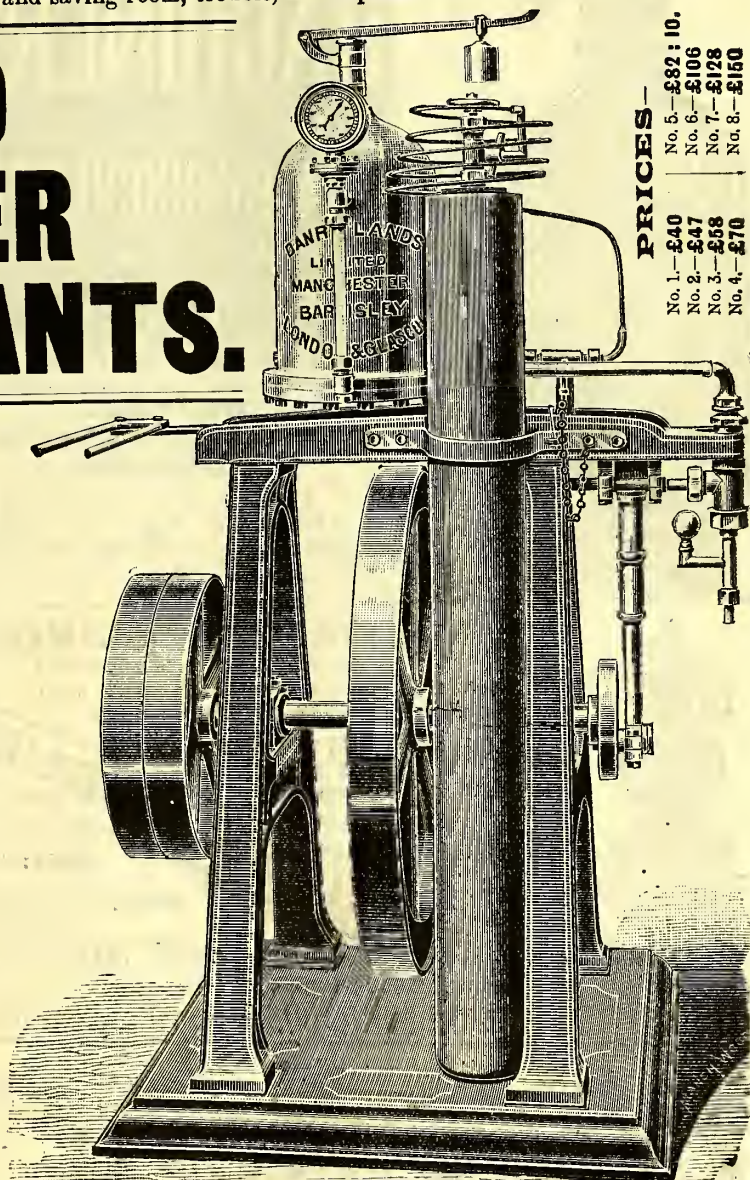
These Plants are peculiarly suited for Chemists who have little room to spare, and who wish to adopt the easiest and cleanest system. The use of whiting, acid, and other raw materials is entirely dispensed with. Pure Compressed Carbonic Acid Gas, supplied in steel tubes, is used with these machines; this gas is made to pass direct into the cylinder of the machine, entirely doing away with the old-fashioned generator and gasholder, and saving room, trouble, and expense.

## AERATED WATER PLANTS.

Very Efficient in  
Working.

All Sizes, for Hand  
or Power.

Require only  
**HALF**  
the usual POWER.



| PRICES—   |                |
|-----------|----------------|
| No. 1—£40 | No. 5—£82: 10. |
| No. 2—£47 | No. 6—£106     |
| No. 3—£58 | No. 7—£128     |
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These Plants are really good serviceable machines, suited to supply either the largest Factories with from 3,000 to 4,000 dozens per day, or the smallest Chemist's Shop, where room is so valuable; and will turn out Aerated Waters, either in Bottles or Syphons, which cannot be surpassed for quality by any machine made. These Plants are not toys, as are too many of the Compressed Gas Machines which have been offered to the public; but are of the very best make, with strong Gun Metal Cylinders, and entirely free from any metal which will contaminate the waters. As no Generator or Gasholder is used with these machines, they occupy very little space, and no doubt this economy in space, as well as the economy in price of the whole Plant, will commend these machines to those to whom these qualities are of the utmost importance.

**DAN RYLANDS, LIMITED, BARNSELEY.**



# SYPHONS & SELTZOGENES



Messrs. J. BARRE JOHNSTONE & CO., 30 Loftus St., Sydney, N.S.W.  
Agents for New South Wales, Queensland, and New Zealand.

**SODAWATER  
MACHINERY**  
AND APPLIANCES  
**BRATBY & HINCHLIFFE LTD**  
AND DATS 146 MINORIES  
**MANCHESTER LONDON**  
81 ROBERTSON STREET, GLASGOW.

## PRICES.

**SYPHONS** ... 1/6 1/8 and 1/10 each.

## SELTZOGENES.

|     |     |     |     |      |            |
|-----|-----|-----|-----|------|------------|
| 1   | 2   | 3   | 4   | 5    | 8 pint.    |
| 6/- | 6/8 | 7/6 | 8/6 | 10/5 | 16/- each. |

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

Messrs. NOYER BROS., 48 Queen Street, Melbourne, Victoria  
Agents for Victoria, South and West Australia, and Tasmania.



## THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.

Every Chemist should see this New Invention before ordering any more Ordinary Screw Taps.

**NO SCREWS TO CORRODE OR  
GET JAMMED.  
EASY, RAPID, AND  
EFFECTIVE IN  
USE**

**SYPHONS & SELTZOGENES.**

## SYPHONS

EIGHT HIGHEST AWARDS  
SUPERIOR QUALITY.  
ENGLISH MAKE.

**HEADS:** Of Guaranteed Metal, Plain Burnished, Nickelled or Silver-plated.

**VASES:** Of Extra Strength, Finest Crystal and Colours; ornamentally Engraved; 18 to 50 oz. Capacity.

**THE "MAJOLICA" SYPHON,** Porcelain-lined Head, is specially adapted for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES, consistent with FIRST QUALITY and WORKMANSHIP, on application to

**THE BRITISH SYPHON M'FG. CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.**

LAURENT-PERRIER & C<sup>IE</sup>  
**COCA-TONIC**  
WINE GROWERS, BOUZY REIMS.  
**CHAMPAGNE.**

## SUGAR FREE.

Carefully Standardised.

Prepared by Actual  
Champagne Growers.

Prescribed as the Best  
Restorative Tonic for  
Influenza, and in cases  
of Insomnia, Neurasthenia, etc.

In Bottles, 2/- and 3/9.

Full Particulars of HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.



# BARNETT & FOSTER,

## MANUFACTURERS.

### THE "COMPACT" CONTINUOUS ACTION SODA-WATER MACHINE.

For use with the Liquefied  
Carbonic Acid Gas.

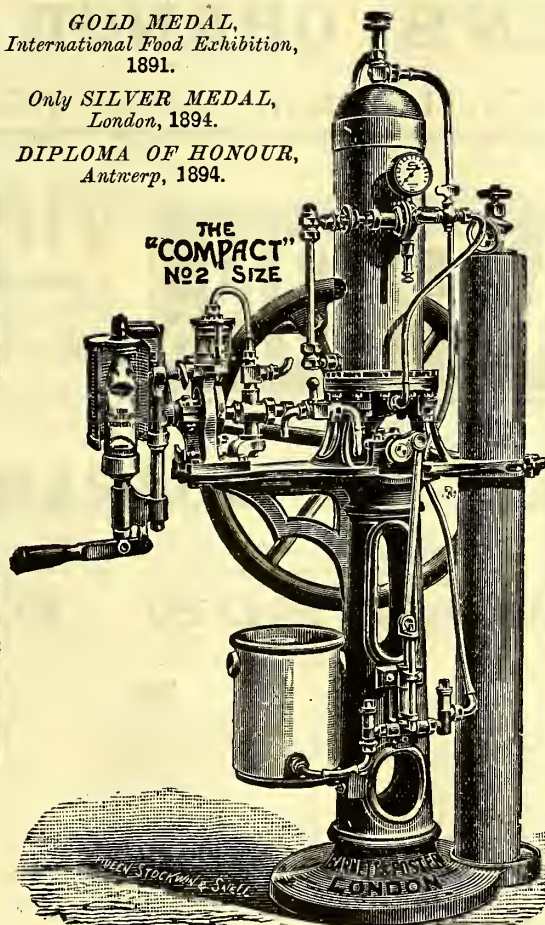
Specially designed for  
use where space is  
an object, and for  
those having a large  
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Chemists, Hospitals,  
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are ready for work  
immediately, require  
no fixing, and produce  
Aërated Waters of the  
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at a minimum of cost.

**NO DANGER.  
NO MESS.  
PERFECTLY  
RELIABLE.**

*GOLD MEDAL,  
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We guarantee to pro-  
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**No. 1 Size**, complete with Turnover and Syphon-filling Machine, and fitted with  
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Producing Capacity by Hand-power 600 dozen per day.

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Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling  
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## "NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON

KNOWN ALL OVER THE WORLD.

*Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.*

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# ORANGE QUININE WINE.

When made with **Dowden's Seville Orange Wine** (defatted), this article no longer gives either trouble or unsatisfactory results. The Quinine should be added in the usual way, in any convenient closed vessel, and allowed to settle a few days, when the wine will be found **Brilliant** without filtration, and will so remain permanently after bottling. See opinion of Editor of THE CHEMIST AND DRUGGIST in Winter Issue, page 150.

*Ask for Samples and state quantity to quote for.*

## DOWDEN'S ORANGE WINE.

DOWDEN & CO., Limited, ST. PAUL'S DISTILLERY, BOURNEMOUTH.



## VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

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## NEEDS NO GUARANTEE.

BY ROYAL LETTERS PATENT.

## THE MAWSON FILTER.

Perfected by the aid of exact analysis, tested by experts and Medical Officers of Health, and adopted after rigid trial by the highest authorities in Sanitation in the world.



Plain .. 29 4/6  
Engraved .. 5/6  
RETAIL SELLING PRICES.



No. 1 2 3 4 6  
14/6 21/- 27/- 35/- 50/- each.  
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### THE NEW PATENT MAIN SERVICE FILTER.

By gravitation. No high pressure required.

Vide Professor TICHBORNE'S Special Report on these Filters.

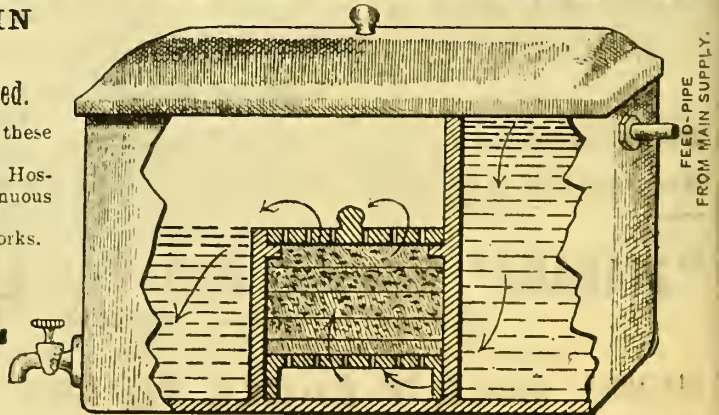
Adapted for Dwelling-houses, Hotels, Schools, Hospitals, Soda-water Factories, &c., giving a continuous supply of pure water without attention.

Various sizes can be seen in operation at the works.

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# JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New  
Premises at

**ARDWICK GREEN, MANCHESTER,**

WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

**MINERAL WATERS,**  
AND  
**BREWED GINGER BEER,**  
**Aërated Beverages.**



The  
LABORATORIES, MACHINERY,  
and APPLIANCES are  
THOROUGHLY UP TO DATE,  
and the Water Used comes only in  
contact with Pure Tin and Slate,  
thus absolutely avoiding any  
dangerous metallic contamination.  
As heretofore, only the Finest  
Qualities of Materials will be used  
in every department. We rely on

the quality of our productions to ensure for them a preference with the consumer who  
requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

**SPECIAL**  
NOTE.

Read the important official analysis on page 323  
~~~~~ of the Diary for current year. ~~~~~

CARRIAGE PAID ON WATERS & RETURNED EMPTIES.

JEWSBURY & BROWN, Mineral Water Manufactory,
ARDWICK GREEN, **MANCHESTER**

ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.

NATURAL MINERAL WATERS

**Packing
Free.**

INGRAM & ROYLE

**Carriage
Paid.**
LONDON—52 Farringdon St., E.C.
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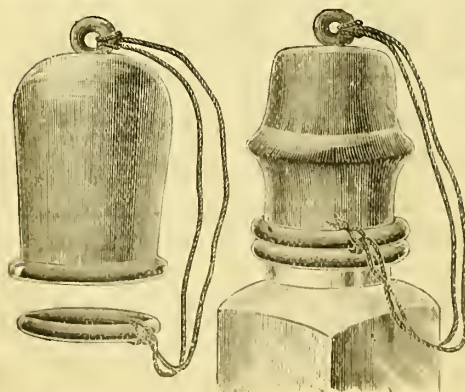
SOLE IMPORTERS OF
(STATE SPRINGS)

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ÆSCULAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, OBERBRUNNEN, ROSBACH, VALS, ETC.

| NAME | Per Dozen | | Original Packages | | | | NAME | Per Dozen | | Original Packages | | | |
|-------------------|-----------|---------|-------------------|-----------|-----|------|----------------------------------|-----------|---------|-------------------|-----------|-----|------|
| | Bots. | ½ Bots. | Bottles | ½ Bottles | 100 | 50 | | Bots. | ½ Bots. | Bottles | ½ Bottles | 100 | 50 |
| ÆSCULAP | 15/- | 12/- | 25 | 30/- | 50 | 50/- | Levico | — | 15/- | — | — | — | — |
| Apollinaris | 6/- | 5/- | 50 | 23/- | 100 | 36/- | Pullna | 12/- | 8/- | 40 | 36/- | 40 | 25/- |
| Barium | 9/- | 5/6 | 50 | 36/- | 100 | 43/- | Reginaris | 5/6 | 4/6 | 50 | 21/- | 50 | 17/- |
| Hourboule (La) .. | 11/- | — | 50 | 42/- | — | — | Reisdorf | 6/- | — | 50 | 25/- | — | — |
| Carlsbad | 12/- | — | 50 | 46/- | — | — | Rosbach | 6/- | 5/- | 50 | 25/- | 100 | 39/- |
| CONDAL | — | 14/- | — | — | 50 | 56/- | Royat | 9/- | — | 50 | 34/- | — | — |
| Contrexeville .. | 9/- | — | 50 | 35/- | — | — | Rubinat | 15/- | 8/- | 25 | 30/- | 100 | 60/- |
| Flitwick | 24/- | 15/- | — | — | — | — | St. Galmier | 6/- | 4/6 | 50 | 22/- | 100 | 34/- |
| Frank-Josef | 15/- | 12/- | 25 | 30/- | 50 | 42/- | St. Marco | 11/- | 6/6 | 50 | 42/- | 100 | 52/- |
| Friedrichshall .. | 13/- | 10/- | 25 | 25/- | 50 | 40/- | Salutaris (including bottles) .. | 4/- | 2/6 | — | — | — | — |
| Gerolstein | 5/- | 4/- | 50 | 20/- | 50 | 15/- | Selters | 6/- | 4/6 | 50 | 24/- | 50 | 17/- |
| Hunyadi-Janos .. | 11/6 | 9/- | 25 | 21/- | 50 | 34/- | Vals | 8/6 | — | 50 | 33/- | — | — |
| Johannis | 6/- | 4/6 | 50 | 22/- | 100 | 35/- | VICHY (State Springs) .. | 8/6 | 6/6 | 50 | 33/- | 50 | — |
| Kronenquelle .. . | 10/- | — | 50 | 38/- | — | — | “Celestins,” “Hôpital,” | — | — | — | — | — | — |
| OBERBRUNNEN .. | 9/- | — | 50 | 36/- | — | — | “Grande-Grille,” &c. | — | — | — | — | — | — |

CARRIAGE PAID, excepting SALUTARIS. Detailed Price List and Pamphlet on application.
INDEX & BUYERS' GUIDE,
SEE PAGES 61-64.

PATENT BOTTLE CAP


Invaluable for Medicine Chests, Travelling Bags, and Laboratory use. Stoppers cannot come out. To be obtained from all Wholesale Chemists.
ESSRS. B. BIRNBAUM & SON (LIM.),
 Wick Lane Rubber Works, BOW, E.C.

KINMOND'S

**Royal Leamington
APNEUMATIC**

TABLE WATERS

Were first supplied to H.M. the Queen in 1858,
and to H.R.H. the Prince of Wales in 1862.

KINMOND'S GINGER ALE,

AND ALL THEIR OTHER WATERS,
Are UNRIVALLED for PURITY and QUALITY.

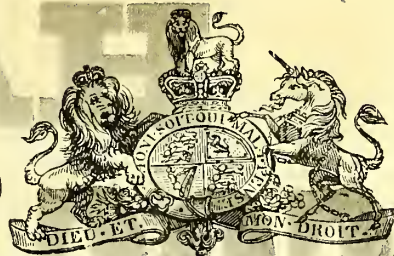
In Ordinary Bottles and Syphons.

MANUFACTORY- LEAMINGTON.

Send for Trade List and Compare Prices.

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IDRIS ROYAL TABLE WATERS ARE SUPPLIED
BY SPECIAL WARRANT TO THE QUEEN.



EIGHT GOLD MEDALS AT RECENT EXHIBITIONS.

ROYAL

All Chemists who wish to do a large trade in Mineral Waters are advised to stock these well-known Waters, which are in constant demand by the Public, and sell better than any others.

No Firm or Association can offer such facilities to Chemists to do a large trade.

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Medical Men strongly recommend Idris Table Waters. Chemists who have sold these Waters for many years still find their business increasing.

Sample Case sent Free to any Chemist. Attractive Circulars with Chemist's name.

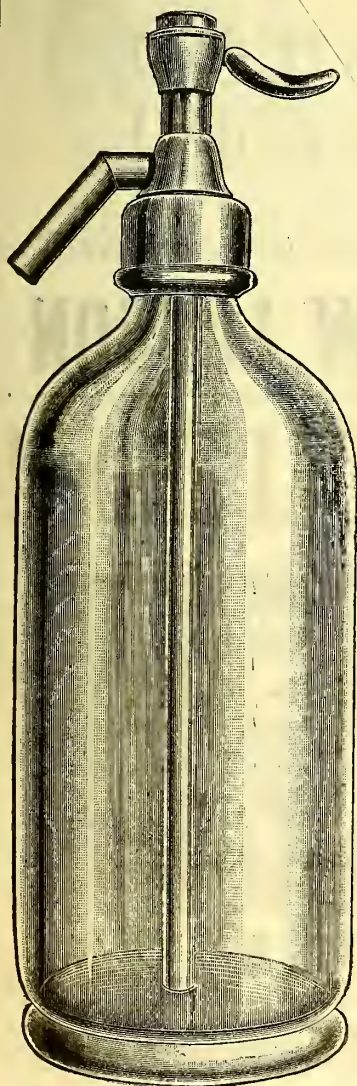
HANDSOME SHOW CARDS.

WATERS

Elegantly - designed Tablets for shop windows and doors specially prepared to suit the requirements of each customer supplied free.

*Chemists are invited
to inspect*

*Idris & Co.'s
Factory.*



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HALL'S COCA WINE

3/6 Size - 26/- per Case (1 doz.)

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Can be obtained through the Wholesale Houses, or from the Proprietors,

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IMITATED BUT NOT EQUALLED!!

MASON'S
IS THE ORIGINAL
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No other Extract makes Beer like it!!

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FINEST CREAM & SUBLIME OLIVE OIL (Guaranteed Pure.)
FINEST FRENCH REFINED NUT OIL,
Sweet and Edible.

All kinds of Oils of Foreign and own Refining for Illuminating and Lubricating Purposes, Methylated Spirit, Turpentine, Chemicals, Colours, Disinfectants, &c.

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NEW CAPSULING MACHINE

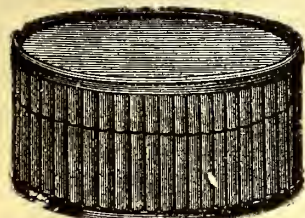
The only Machine
which leaves no crease
or pleat on the
Capsule.



Can be fixed to any
Counter.
A single pull of the lever
is sufficient
to fix the Capsule.

Patentee—**C. MELIN,** 37 Crutched Friars, LONDON, E.C.

THE "STIPENDUM" STOPPER CO., LIM.



47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

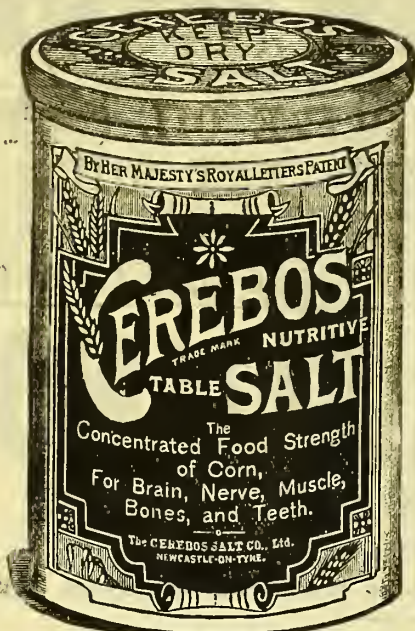
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IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended.
To be had of all Druggists' Sundriesmen. Wholesale only of the Company.

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FINEST TEAS



DRINK
"TARALOUVA"
Ceylon Fannings
TEA,

Per 1/6 lb.

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Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

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The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

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Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

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30 times the strength of ordinary oil.

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2½ times the strength of ordinary oil.

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The above Essential Oils are *absolutely free from the coarse objectionable insoluble Terpenes.*

**THEY ARE THE MOST SOLUBLE, STRONGEST,
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Important to Chemists and the Public.

ONE OF THE OLDEST AND BEST REMEDIES
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PURE LIQUORICE JUICE.

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Is the **FINEST BRAND** the World produces.
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"The British Medical Journal" says:—

"Of all varieties of Stick Liquorice, "SOLAZZI" is the most famous
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FOR
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CREAM,

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MEAT,
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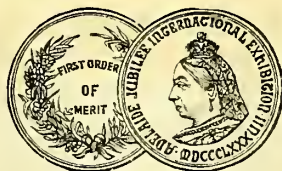
The very Best Preservative for Butter, Margarine, or Milk, being a Pure Homogeneous Chemical compound, not a Mixture.

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THE FINEST BUTTER COLOUR.

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FIRST ORDER OF MERIT AND MEDAL (Highest Award), Adelaide, 1887.

HIGHEST AWARD, Medical and Sanitary Exhibition, London, 1882.

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Directions for use in English, French, or Spanish, as required.

This delicious and highly nutritive Food was awarded the **GOLD MEDAL** at the International Health Exhibition, London, and has since received a High Award at every Exhibition at which it has been shown. **BENGER'S FOOD** is well known to leading medical men, and is recommended by them.

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"This particular food is the only one I have been able to take constantly and with advantage. I have prescribed it for others with the best results."

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"I consider that, humanly speaking, Benger's Food entirely saved baby's life. I had tried four other well-known foods, but he could digest nothing until we began the 'Benger.' He is now rosy and fattening rapidly."

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Coca Wine. 

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"PRICE'S GLYCERINE"

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LIMITED,**

London, Liverpool, and Manchester.

OKELL'S ORIGINAL MONABOUQUET.

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.
Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
**THOMAS WEST, 1185 & 1187 CHESTER ROAD, MANCHESTER.
STRETFORD.**

RANDALL'S BLACK CURRANT LOZENGES

| | |
|-------------------------------------|---------------------------------------|
| Plain Black Currant, old square 2/6 | Black Currant Voice (warm |
| Plain Black Currant, rough oval 2/6 | astringent) 3/ |
| Black Currant and Ipecacuanha 2/6 | Black Currant Cough Lozenges* 3/6 |
| Black Currant and Tannin .. 3/ | *Ipecac. & Morph., strength as "B.P." |

In Bottles, 1-lb., 2-lb., 4-lb., and 7-lb. For exportation, in soldered Tins, of any size. From W. EDWARDS & SON and J. SANGER & SONS, London; through any Wholesale House; and from the Manufacturers,

RANDALL & SON, SOUTHAMPTON,
(W. B. RANDALL, H. WILSON),

Who will forward Samples by post on application.

Also Brown Cough Lozenges, 2 - : 7 lbs. stamped with name free.
N.B.—Medical Lozenges of every kind, including those of the Pharmacopœia of the Hospital for Diseases of the Throat, London, made with Black or Red Currant.

POTTER & CLARKE'S

SEEDS IN PACKETS.



A MARVELLOUS RESULT.

Mr. G. SWAIN, of Leeds, writes:—"I had the 'Winged Lion' Flower Seeds last year, and the result was marvellous; in fact, they were better than many expensive prize collections. I was highly satisfied with them."

BEST QUALITY ONLY IN ALL PACKETS.

TERMS—

| | | |
|--------------|---------------------------|-------------|
| 1d. PACKETS | ON | } 6/- |
| VEGETABLE | $\frac{1}{2}$ gross Cards | |
| AND | OR IN | } PER GROSS |
| FLOWER SEEDS | 2 gross Cases | |

WAREHOUSE and OFFICES—

Artillery Lane, Bishopsgate, LONDON, E.

MANCHESTER:

54 Great Ancoats Street.

QUICK SELLING LINES.

HARMLESS HEADACHE POWDERS.



Our recipe is different from any other on the market and is far superior to the most lavishly advertised Headache Powders now before the public. Being put up in plain envelopes, there is no need of the Patent Medicine Stamp.

THEY HAVE AN ENORMOUS SALE AND GIVE EVERY SATISFACTION.

On $\frac{1}{2}$ -gross Cards,
Price 7/- per gross.

In boxes containing 20 powders,
Price 9/- per dozen.
(As per illustration.)

CORN AND WART PAINT.



This preparation has a splendid and increasing sale and bids fair to be the most popular preparation of its kind. It is put up in Actinic blue bottles, with boxwood top corks and brushes attached, and neatly packed on 1-doz. cards.

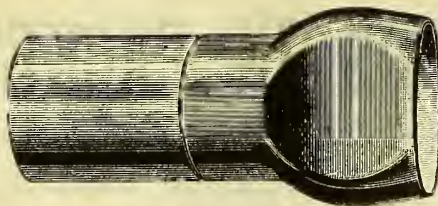
4d. Bottles ... 2/8 per dozen.

POTTER & CLARKE, WHOLESALE & EXPORT DRUGGISTS,

5, 6, and 7 Raven Row, Artillery Lane, LONDON, E.

THE LATEST CRAZE.

*A Bicycle and
Burglar Alarm
which claims to be*



ACTUAL SIZE.

*"Melodious"
"Soothing,"
"Hideous,"
"Unearthly."*

A Critic writes—"It sends forth a piercing note to be heard above all the noise and din of London traffic, or even a Salvation Army band." Another Critic—"When blown softly (very softly) the sound produced is melodious, somewhat melancholy, but also rather soothing. As the blower becomes more energetic, the sound becomes fuller and weird, and when the full strength of the lungs is put forth the sound becomes absolutely hideous."

The *Hardwareman*, April 13, 1895, writes—"A WONDERFUL WHISTLE. Messrs. W. B. FORDHAM & SONS (Limited), are putting on the market a novel cycle alarm or syren whistle, which is a wonder as regards both quality and price. The 'St. Pancras' alarm whistle, as this new cyclists' road clearer is called, retails as a sixpenny line, though it is similar in every respect to a whistle introduced as a shilling article. The variety of sounds that can be made with the whistle is astonishing. The cyclist can, at will, utter the shrillest of ear-piercing whistles, imitate a fog-horn or the screech of a steam syren. Any cyclist can be sure of having a clear path for a quarter-of-a-mile ahead, as he can blow, more or less, anything out of his way from a stray dog to a steam roller. Besides its use to cyclists, it also makes a very good boat and dog whistle."

Price 4/- per doz., 45/- per gross. Special price for 5, 10 and 20 gross lots.

We also stock the "DEVELINE" Whistle, and hold a stock of Thirteen Hundred Gross, executing orders as received, at 6/- per doz. Special price for 5, 10, and 20 gross lots.

☛ Samples of either or both for value in stamps and postage.

"SELVYT" CLOTHS

Is a most wonderful fabric. Woven into squares the size of an ordinary duster, and in its natural condition, undyed and without any admixture or saturation, the Cloth is possessed of remarkable properties, imparting with ease and rapidity a brilliant and lasting polish to Silver, Gold, Glass, Metals, Furniture, Patent Leather, and everything in general use for which wash-leathers would be required.

"Selvyt" is of great durability, is most economical and convenient, always handy to have in a sideboard drawer, will outlast any wash-leather, will be as good as new when washed, is soft and pliant, and very



pleasant in the hands, will never get greasy.

These "Selvyt" Polishing Cloths are hemmed and made in the following sizes—

| Sizes—A | B | C | D | E |
|------------|---------|----------|----------|--------------|
| 10½ × 10½ | 14 × 14 | 17½ × 14 | 21 × 17½ | 21 × 20 ins. |
| Net price— | | | | |
| 2/9 | 3/11 | 5/3 | 7/11 | 9/6 doz. |

All London Wholesale Druggists will supply. If any difficulty in obtaining, write—

FORDHAMS, LONDON.

Retail at
4d. 6d. 8d. 1/- & 1/3
respectively.

☛ A Sample Cloth Post Free for Twelve Stamps.

These goods sell readily wherever shown, and in order to give them a start we supply a Counter Box containing two each B, C, and D, for 3/-, thus showing a handsome profit.

☛ See the name and Trade Mark "SELVYT" is on the article, as already imitations are in the Market.

W. B. FORDHAM & SONS, LTD.
36 to 40 York Road, King's Cross, LONDON, N.

Telegraphic Address—CHEMICUS LONDON.

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACETIC ACID

Lorenz, H.
Morris & Callard (Salts)

ACIDS

Boulton J., & Co., Lim.

ADVERTISING SPECIALTIES

Corsan, J. R. | Harris, J.

AERIAL & MINERALS

Apollinaris Co.
Barnett & Foster
Brathby & Hincliffe, Lim.
Chemists' Aerated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Bortle
Jewsbury & Brown
Mills & Co. (Bouras)
Oberbrunn

BITTO PLANT

[See Symplocos and Escherichs.]
Barnett & Foster
Brathby & Hincliffe, Lim.
Bylands, Dan, Lim.
Tyler, Hayward, & Co.

BOONCESABROAD

Australian Drug Co.
Bosley
Kempthorne, Prosser & Co.
Gunn, B. G. & Co. (N.Z.)
Peake, Allen & Co.
Soul, W. H., & Co.
Taylor & Colledge

ALKALOIDS

Howards & Sons (Clonchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

AMMONIA

May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS

Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Deroy Filz Aine
Rozers P.

BAKING POWDER

Goodall, Backhouse & Co.

BANDAGES

Bailey, W. H. & Son
Deane Bell Co.
Hartick & Co., Lim. ("Shoot")
Robinson & Sons
Rohtz, F., & Co.
Wood, Vincent

BATH & FLESH

Barclay & Sons, Lim.

GLOVES

Chemists' Association, Lim.
Maw, S., Son & Thompson
Solport Bros.
Wood, Vincent

BATH SALTS

Cosmosine
Lander, Anderson & Co.
Tidman & Son, Lim.

BEESWAX

Bowdler & Co.
Evans, Sons & Co.
Kemp & Son

BICARB. SODA

Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BIPALATINOLDS

Oppenheimer, Son & Co.

BISMUTH PREP.

Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.

BOTTLES

Bylands, Dan, Lim.
Spendium Stopper Co., Lim.
Taylor, F. H., & Co.
Tidman & Son
Tookood, W. | Youldon, E.

BOXES

Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.

COCA & CHOCOLATE

Chemists' Association, Lim.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros.

COCAINE-HYDRO.

Howards & Sons

COCA WINE

Armstrong, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.

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Howards & Sons

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Armstrong, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.

COCAINE-HYDRO.

Howards & Sons

COCA WINE

Armstrong, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.

BOOKS

Hargreaves, Dr. M.D.
Hensmann, J. W. Miller, P.
Longmans, Green & Co.
Martindale's Extra Pharmacopoeia
Squire's "Companion"

BORAX

Howards & Sons

BRUSHES

Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNERS

Berend & Co.

BUTTER OIL, &c.

Boulton, J., & Co., Lim.
Crawshaw & Co.
Tomlinson & Hayward
Wells & Richardson Co.

CACHOUS

Bleasdale & Co.
Blyton, Astley & Co.
Jackson, T.

CAMPHOR

Howards & Sons

CAPSULES

Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.

CARBOLIC ACID

Howards & Sons (Clonchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

AMMONIA

May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS

Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Deroy Filz Aine
Rozers P.

BAKING POWDER

Goodall, Backhouse & Co.

BANDAGES

Bailey, W. H. & Son
Deane Bell Co.
Hartick & Co., Lim. ("Shoot")
Robinson & Sons
Rohtz, F., & Co.
Wood, Vincent

BATH & FLESH

Barclay & Sons, Lim.

GLOVES

Chemists' Association, Lim.
Maw, S., Son & Thompson
Solport Bros.
Wood, Vincent

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Cosmosine
Lander, Anderson & Co.
Tidman & Son, Lim.

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Bowdler & Co.
Evans, Sons & Co.
Kemp & Son

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Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BIPALATINOLDS

Oppenheimer, Son & Co.

BISMUTH PREP.

Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.

BOTTLES

Bylands, Dan, Lim.
Spendium Stopper Co., Lim.
Taylor, F. H., & Co.
Tidman & Son
Tookood, W. | Youldon, E.

BOXES

Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.

COCA & CHOCOLATE

Chemists' Association, Lim.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros.

COCAINE-HYDRO.

Howards & Sons

COCA WINE

Armstrong, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.

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Lorimer & Co.

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Howards & Sons

COCA WINE

Armstrong, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.

COD-LIVER OIL

Allen & Hanbury
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.

LONDON COD LIVER OIL

Lorimer & Co.
Moller, P., Moss, J., & Co.
Oppenheimer, Sons & Co.

LONDON COD LIVER OIL

Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

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Hovenden & Sons
Kent, G. B., & Sons

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Hovenden & Sons
Kent, G. B., & Sons

LONDON COD LIVER OIL

Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

DYES, &c.

Crawshaw & Co.
Hartick & Co., Ltd., "Diamond"
Farina, J. M.
Hockin, Wilson & Co.
Muhls, F.
Van Oppen & Co.

EAU DE COLOGNE

Farina, J. M.
Hockin, Wilson & Co.
Muhls, F.
Van Oppen & Co.

SCZEM A

Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBRICATION

Day & Sons
Evans, Sons & Co.
Harvey & Co.
"Kvoona"
Walker's "Smotine"

ENEMAS

Barclay, Sons & Co.
Hartick & Co., Ltd. ("Rack")
Putney, J., & Sons
Sanger & Son | Wood, Vincent

ENGRAVERS

Corsan, J. R.

ESSENCES

Boniton, J., & Co., Lim.
Bovril, Lim. (Beef)
Brathby & Hincliffe, Lim.

ESSENCES

Burgoyne, Burdidge & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.

ESSENCES

Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Bylands, Dan, Lim.

ESSENCES

Stevenson & Howell
Tyler, T., & Co. (Anchovies)
Woolley, Sons & Co.

ESSENCIAL OILS

Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott

ESSENCIAL OILS

Drysdale, J. W., & Co.
Evans, Sons & Co.
Jackson, J., & Co.
May & Baker, Lim.

ESSENCIAL OILS

Foppelreuter, W.
Kansom, Wm., & Sons
Bylands, Dan, Lim.
Sozlo & Andrioli

ESSENCIAL OILS

Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.

ESSENCIAL OILS

Treat, R. C. | Warrick Bros.
Widenmann, Brocher & Co.
Wright, Layman & Umney

ETHER

Duncan, Flockhart & Co.
Howards & Sons

ETHER

Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.

ETHER

Tyler, T., & Co.
Wilde, J., & Sons
Woolley, Sons & Co.

ETHER

Wright, Layman & Umney

EUCALYPTUS

Bush, W. J., & Co.
Lauchland, Mackay & Baker
Tasmanian Eucalyptus Oil Co.

EXTRACT MEAT

Armour & Co. | Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co.

EXTRACTS, FLUID

Wyeth, J., & Brother

EXTRACTS, FLUID

Allen & Hanbury
Allen, G., & Co.
Bleasdale & Co., Lim.

EXTRACTS, FLUID

Burgoyne, Burdidge & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.

EXTRACTS, FLUID

Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.

EXTRACTS, FLUID

Moss & Co.
Parke, Davis & Co.
Potter & Clarke

EXTRACTS, FLUID

Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, FLUID

Wright, Layman & Umney

FLY PAPERS

Buchan, D.
Ford, Shapland & Co.
Marshall, E.
May, Roberts & Co.
Silverlock, H. | Strong, Christy

FOOD (Infants & Invalids')

Allen & Hanbury
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.

FOOD (Infants & Invalids')

Evans, Sons & Co.
Glendenning, W., & Sons

LIQUORS

Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.

LOZENGES

Allen & Hanbury
Blyton, Astley & Co.
Gibson, R. & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raines & Co.
Richardson, J., & Co., Lim.
"Solazzi"
Warriok Bros.

MACHINERY

Bennett, Sone & Shears Lim.
Gardner, W.
Hockin, Wilson & Co.
Mellin, C. | Findar, J. W.
Warner & Pfeiderer (Kneading and Sifting)

MAGNESIA

Bleasdale, W., & Co.
Evans, Sone & Co.
Henry, T. & W. (Caloined)
Hill, A. S., & Sone
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MALTEXTRACT, &c.

Allen & Hanbury
Anderson & Co.
Burroughs, Wellcome & Co.
(Kiepler's)
Glendenning, W., & Sone
(Wine)
Hearon, Squire & Francis
Lofoden Cod Liver Oil Co.
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Sone & Co., Lim.
Parke, Davis & Co.
Raines & Co.
Raines, Clark & Co.
Richardson, John, & Co. (Lester), Lim.
Robinson & Co.

MANICURE

Hovenden & Sone

MARKING INKS

Bond (Daughter of the late John) (Ink & Pencils)

MEDICINE CHSTS

Barroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sone (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL

Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sone & Co.
Hockin, Wilson & Co.
Maw, S. Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS

Howards & Sone
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRITS, &c.

Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.

METHYLENE

Robbins, J., & Co.

MICROSCOPES

Darton, F., & Co.

MILK

Nestlé, H. (Condensed)

MORPHIA

Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.

NIGHT LIGHTS

Palmer & Co., Lim.

OILS

Bowley, S., & Sone
Hooper, E., & Co. (Sandal Wood)

OILS, PAINTS,

VARNISHES, &c.

Rigby, Ralph, & Co.

OINTMENT BASES

&c.
Burroughs, Wellcome & Co.
(Lanoline)

Chesebrough Co. (Vaseline)

Christy, T., & Co.

Lloyd, T. Howard, & Co.

Richardson, J., & Co. (Leicester), Lim.

Rypona

Stevenson, H. E., & Co.

OPIUM

Hopf, R.

OPTICIANS

Botwright & Grey

Darton, F., & Co.

Raphael, J., & Co.

OTTO OF ROSE

Warriok Bros.

OXIDE OF ZINC

Hubbuck, T., & Sone, Lim.

Stevenson, H. E., & Co.

PALATINOIDS

Oppenheimer, Son & Co.

PASTILES

Jackson, T.

PAT. MEDCNS, &c.

Anglo-American Drug Co.

Lim. (Freeerv.)

Atkinson & Barker (Infant

Barclay & Sone, Lim.

Beecham, T. (Philo)

Bow's, Dr. Liniment

Chemists' Association, Lim.

Clarke's Blood Mixture

Cullwick's Skin Ointment

Cullwick's Blood Tablets

Edwards & Sone

Evans, Lescher & Webb

Fassett & Johnson

Fenning (Powders)

Goodall, Backhouse & Co.

"Hormanine"

Holloway (Pills and Oint.)

Hovenden & Sone

Lalor (Phosphodyne, &c.)

MacKenzie, Dr. (Catarrh Cure)

May, Roberts & Co.

Newberry, F., & Sone

Norton & Co. (Influenza cure)

Powell, T.

Roberts & Co. (Foreign)

Sutton, W., & Co.

Warner, H. H., & Co., Lim.

Wilkinson & Co.

Wilson, A. (Bunter's Nervine)

PEPPERMINT OIL

Bush, W. J., & Co.

Jackson, J., & Co.

Ransom, W., & Sone

Stevenson & Howell

PERFUMERY,

FANCY SOAPS

Barclay & Sone, Lim.

Bleasdale & Co.

Blondeau & Co. | Boshm, F.

Blyton, Astley & Co.

Brooks, T. (solid)

Burgoyne, Burdidge & Co

Burroughs, Wellcome & Co.

Bush, W. J., & Co.

Chemists' Association, Lim.

Chesebrough Co.

Evans, Sone & Co.

Ewen, J., & Sone | Farina, J. M.

Hovenden & Sone

Kemp & Sone

Lanoline | Mulhens, F.

Newberry, F., & Sone (Berdes

Pears, A. & F., Lim.

Pierce's Patent, H. H., Lim.

Sozio & Andrioli

Tidman & Sone | Treat, E. C.

Truefitt, H. P., Lim.

Van Oppen & Co.

Warriok Bros.

West, T. (Ozell's Mena)

Woolley, Sone & Co. (Powder)

Wright, Layman & Umney

PEPSIN, &c.

Armour & Co.

Burroughs, Wellcome & Co.

Newberry, F., & Sone (Ingluvin)

Oppenheimer, Son & Co.

Parke, Davis & Co.

Stevenson, H. E., & Co.

Warner & Co. (Ingluvin)

PEROX. OF HYDR.

May & Baker, Lim.

Robbins & Co. | Tyrer, T., & Co.

PETROLEUM

Allen & Hanbury

Christy, T., & Co.

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[Continued on next page.]

HAND**50/-****50/-****CAMERA**

At the commencement of the Outdoor Photographic Season we have the pleasure to introduce to your notice a new HAND CAMERA, which for the sake of identification we have called the

FIFTY SHILLING HAND CAMERA.

IT TAKES TWELVE QUARTER PLATES, which are brought in succession in front of the lens by merely pressing a knob, at the same time registering the number of the exposed plate.

IT HAS TWO VIEW FINDERS, in the usual positions.

IT IS FITTED WITH A THOROUGHLY GOOD FIXED FOCUS LENS, having an iris diaphragm. By simply turning a button, time or instantaneous exposures can be made at the will of the operator.

IT IS MOROCCO BOUND, and measures 8 by 6½ by 4 inches, and weighs 3 lbs.

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Highest Award and Gold Medal, Antwerp; Silver Medal, Rome, 1894; Highest Award, Chicago, 1893.

RELIABLE AND ELEGANT PHARMACEUTICAL PREPARATIONS

OF

WM. R. WARNER & CO.

Soluble Coated Pills in Improved Registered OVAL PEDESTAL PILL
VASES, with Vitriified Opal Glass Labels.

In Permanent Pink or Blue, Gilt Bordered and Hand-Painted.

In three sizes, supplied with either of the following Labels, viz.:-

"Sweet Little Liver Pills."

"Little Rhubarb Pills."

"Quinine Pills."

"Little Aperient Pills."

"Digestive "

"Little Podophyllin Pills."

"Cathartic "

"Dinner "

"Antibilious "

Per Vase of 3,000 "Little" Pills, Formula 142, 180, or 184 ("Little Rhubarb," &c.), 14 5/8. Height, 9 1/2 in.; breadth, 3 in.

IN TWO LARGER SIZES, OF WHICH DIMENSIONS ARE GIVEN AT FOOT.

REDUCED PRICES—Filled with Soluble Sugar-Coated Pills (these registered
Vases are supplied ONLY with Pills).

| | Ordinary
Size
containing
1,000 Pills | Largest
Vase
containing
2,000 Pills |
|--|---|--|
| Vase of (No. 120) Cathartic and Liver Pills | £ s. d. | £ s. d. |
| " " 126 " (Active) " | 0 8 6 | 0 14 0 |
| " " 125 or 135 Pil. Rhei Co. | 0 9 2 | 0 14 10 |
| " " 75 Antiperiodic | 0 11 3 | 0 18 0 |
| " " 27 Aloes c. Fer. B.P. | 0 17 3 | 1 12 0 |
| " " 29 Aloes Socot. B.P. | 0 11 2 | 0 19 4 |
| " " 41 Ipecac. c. Scilla B.P. | 0 11 0 | 0 19 0 |
| " " 49 Antibilious Veg. | 0 13 0 | 1 3 0 |
| " " 91 Coloc. Hyd. et Hyos. | 0 12 8 | 1 3 0 |
| " " 117 Anticonstipation | 0 15 2 | 1 6 6 |
| " " 141 Arthrosia | 0 12 8 | 1 2 6 |
| " " 142, 180, or 184 Little Cathartic, &c. (small Vase) .. | 1 0 0 | 1 17 0 |
| " " 145 Rheumatic | 0 7 0 | |
| | 0 18 0 | 1 13 0 |

Any other formula in List at proportionate rates.

100 Circular Labels (assorted or not) free, on request, with every £1 worth of Sugar-coated Pills in the List of W. R. WARNER & CO. (They are best adapted to No. 142, 180, or 184.) Price per 100, any kind, if required separately, 4d.; 1,000 of one kind, 1/8.

No. 1. Little Antibilious Pills.

No. 5. May Apple Liver Pills.

No. 9. Sugar-coated Little Liver Pills.

" 2. Little Aperient Granules.

" 6. Little Comp. Podoph. Granules.

" 10. Sweet Little Dinner Pills.

" 3. Little Cathartic Granules.

" 7. Compound Eucalyptin Pills.

" 11. Sweet Little Digestive Pills.

" 4. Sweet Little Liver Granules.

" 8. Little Comp. Rhubarb Pills.

Screw-capped Pill Tubes, "No. 2 B, 1 dram Narrow," the size adapted to the profitable retail sale of "Little" Pills, 9/- per gross.

DIMENSIONS FOR SHELVING.—Smallest Pedestal Vase, height 9 1/2 in.; breadth 3 in. Medium (ordinary), ditto, height about 11 in.; breadth about 3 1/2 in. Largest (or third size), ditto, height about 13 1/2 in.; breadth about 4 1/2 in.

**SEND FOR NEW AND COMPLETE LIST, GIVING FORMULÆ, OF W. R. WARNER & CO.'S
PREPARATIONS REVISED TO DATE.**

SOLUBLE COATED PILLS.

COMPRESSED LENTIFORMS, Packed for Retail, or in Tins & Counter Vases.

HYPODERMIC COMPRESSED DRUGS.

"STAR BRAND" LIQUORICE LOZENGES.

SILVER-BURNISHED AND SUGAR-COATED CACHOUS.

BROMO-SODA, INGLUVIN, &c., &c.

IN STEADY SALE ALL THE YEAR ROUND AND ALL THE WORLD OVER.

Depot:—F. NEWBERRY & SONS, 1 & 3 King Edward St., LONDON, E.C.
Newgate St.,

GIVEN AWAY. YOUR RUBBER STAMP. Name in Full or Monogram for Marking Linen or Stamping Paper. Voucher enclosed with every 6d. and 1s. Bottle, entitling Purchaser to above. Also FREE, with Enlarged 1/- Blue Wrapper Ink, an Improved Linen Stretcher.

CRYSTAL PALACE JOHN BONDS GOLD MEDAL MARKING INK

THE ORIGINAL AND GENUINE. THE CHEAPEST, BEST, AND MOST SALEABLE ARTICLE IN THE MARKET.

WHOLESALE PRICES NET.



CRYSTAL PALACE JOHN BOND'S (Daughter's INK.

30s.

Per
Gross.

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GOLD

MEDALS

AND

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AWARDS

EUROPE,

ASIA,

AFRICA,

AND

AMERICA.

60s.

Per
Gross.

SPECIAL ANNOUNCEMENT!

In order to further sale of the 1/- size, on and after date I intend giving **FREE WITH ENLARGED 1/- BOTTLE AN IMPROVED LINEN STRETCHER** for Marking Linen, Cotton, Silk, &c., this in addition to the very successful Rubber Stamp gift, and there will be **NO EXTRA CHARGE WHATEVER**, the price remaining the same as hitherto—for the 1/- size in Blue Wrappers, 60/- per gross. Better value for money could not be, as the new gift will be largely advertised. Kindly order, that no intending purchaser may be disappointed.

KINDLY ORDER AND DISPLAY IN WINDOW AND COUNTER, AND YOU WILL FIND IT DOUBLE YOUR SALE. CAUTION IN ORDERING THROUGH THE WHOLESALE.—Please state Crystal Palace John Bond's (Daughter's) Ink is required. Kindly examine each parcel received, as complaints are daily made of imitations being substituted. The Trade are invited to give all particulars where so deceived. See actions, injunctions, costs and damages awarded against wrong doers; it is libel, fraud, and criminal to palm off colourable imitations. **SEND FOR NEW ILLUSTRATED PRICE LIST AND SAMPLE OF NEW LINE.**

WORKS AND OFFICES, 75, SOUTHGATE ROAD, LONDON. N.

T. REMUS'S

30, 32 & 34 Tabernacle St., LONDON, E.C.

ROUND CARDBOARD BOXES

(WITH ORNAMENTAL RIVETS).

| No. | Diameter in Inches. | Depth in Inches. | A Plain. | B Shoulder and Lid of Box Coloured. | |
|-----|---------------------|------------------|------------|-------------------------------------|---|
| 5 | 2 | 1 | Per gross. | Per gross. | Dies for embossing are charged extra, from 10s. to £2 10s.. according to design; but if 25 gross are ordered, the die is not charged. |
| 6 | 2 3/8 | 1 1/8 | 7/9 | 8/6 | |
| 8 | 3 1/8 | 1 3/8 | 9/6 | 10/3 | |
| 10 | 3 3/4 | 1 3/4 | 14/3 | 15/3 | |
| 12 | 4 1/4 | 2 1/4 | 19/- | 20/3 | |
| 14 | 5 1/2 | 2 1/2 | 25/- | 27/- | |
| 16 | 6 3/8 | 3 1/8 | 33/- | 35/- | |
| 18 | 7 1/8 | 3 3/4 | 47/3 | 50/- | |
| | | | 65/3 | 69/- | |
| | | | | | 10 % discount allowed on 12 gross and upwards. |

LIDS MAY BE EMBOSSED, LABELLED, OR GOLD BLOCKED.

The charge for embossing top of lid is as follows:—

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| No. 11 to 16 | ... | ... | 2/6 | |
| No. 17 & 18 | ... | ... | 3/- | |

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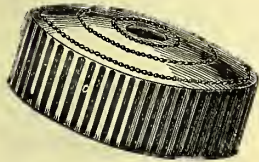


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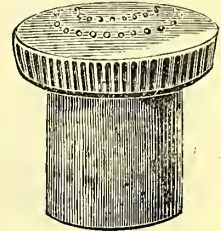
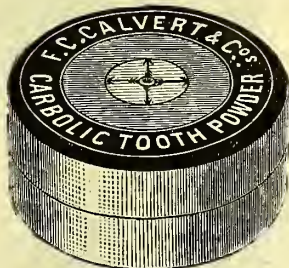
THE PATENT STOPPER BOX & STAMP CO., LIM.**13 VICTORIA STREET, WESTMINSTER, S.W.****Works—BIRMINGHAM.****C. HOUGHTON BROWN,**

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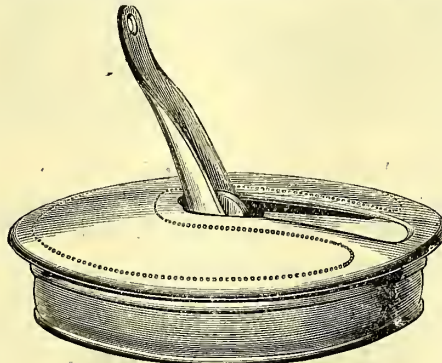
MANUFACTURERS of every description of

**BOXES, STOPPERS,
POMADE & SCREW CAPS,
CAPSULES, &c., &c.****SCREW CAPS OR CAPSULES.**

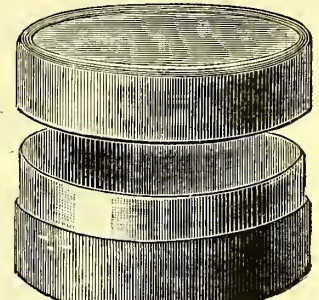
(Cork Lined or otherwise.)

**PATENT UNION STOPPER.**

Patent No. 12711.

THE UNIQUE BOX.**PATENT LEVER STOPPER.**

Samples and Prices on application.



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THE UNIQUE BOX.**BOXES**
ESTABLISHED 1839
ESTABLISHED**ROUND, OVAL, SQUARE, or FOLDING, for the
DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.****LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL
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Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homoeopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

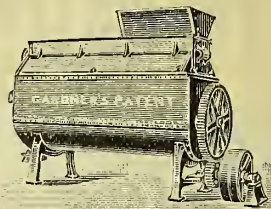
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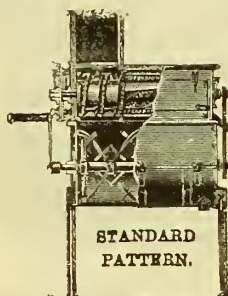
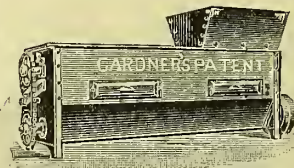
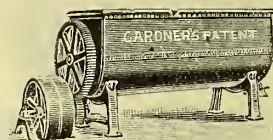
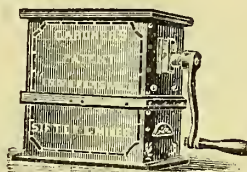
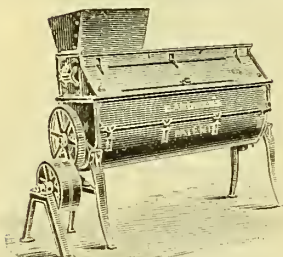
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Sifters and Mixers



*For simultaneously reducing Lumps and Sifting and
Mixing every class of Dry Powders.*



Send particulars of your requirements to
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(Specialists in Sifting and Blending Machines),
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Telegrams: "Gardner, Gloucester."
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Reduced Price **55/-** Latest Improvements.

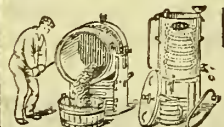
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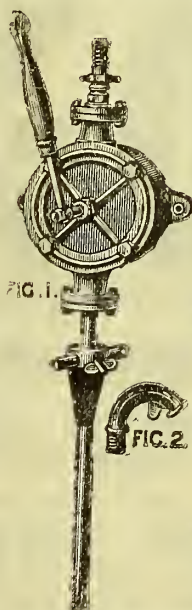


FIG. 2

We have bought the Stock of these Pumps from
MESSRS. PONTIFEX & WOOD
SHOE LANE, LONDON,
Who have given up this part of their business,
and it is our intention to continue same.

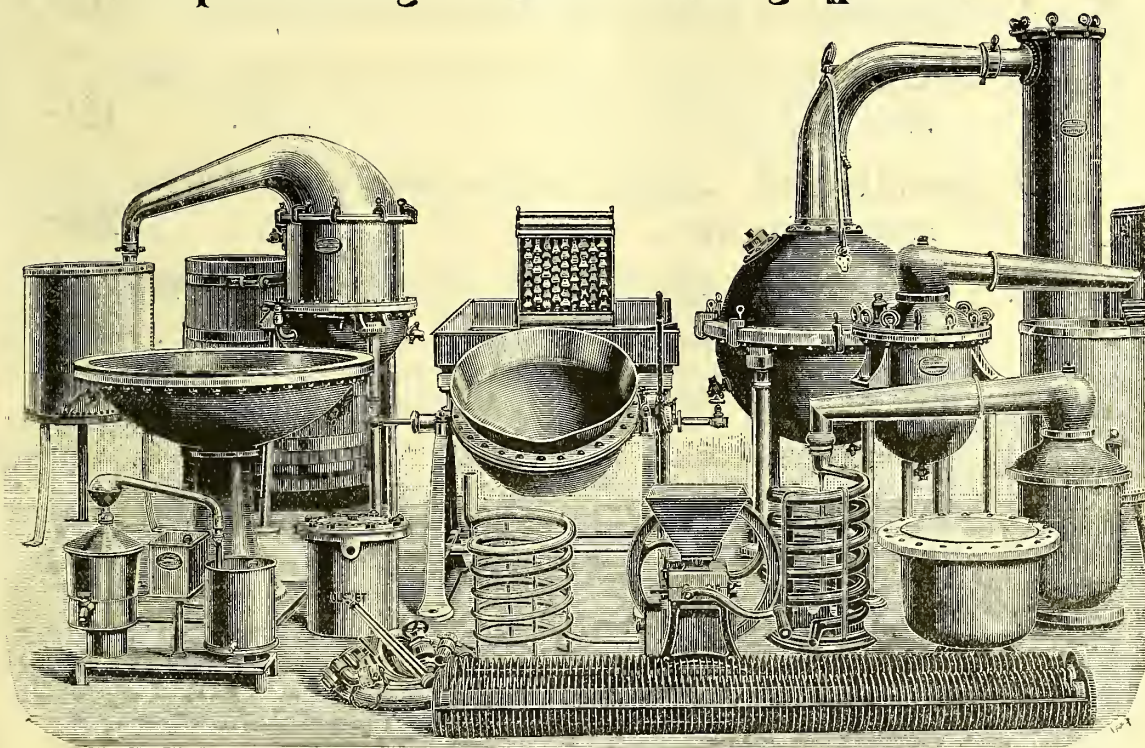
*We hold a Good Stock, and can give
Prompt Delivery.*

Write for full particulars and prices of The "Farrington"
Patent Oil Pumps to

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34 & 36 Southwark Street,
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ESTABLISHED OVER 100 YEARS.

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STEAM ENGINES
STEAM BOILERS
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ALCOHOL STILL
ALMOND OIL STILL
OINTMENT MIXERS

AMMONIA STILL
AQ. DESTIL. APPARATUS
CLOVE OIL STILL
CARAWAY OIL STILL
LAVENDER STILL
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VACUUM FILTERS
PILL MACHINERY

Testimonial from Messrs. EVANS, GADD & CO., Exeter.*"July 7th. 1894.*

"As you have now nearly completed the refitting of our Laboratory, we have pleasure in expressing our satisfaction with the manner in which the work has been executed.

"The plant with which you have supplied us is well made, and, as far as we can judge after working it for only a short time, answers the purpose for which it was designed admirably."

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Nos. 18 & 19

LONDON, W.C.

*The only firm with its own establishments on the
Sponge Fisheries.*

Head-Quarters for Sponges.

Spring, 1895.

GREAT SPONGE SHOW

Finest Sponge Warehouse in the World.

3,000 SQUARE FEET CLEAR FLOOR SPACE.

CRESSWELL BROTHERS & SCHMITZ are now exhibiting the **LARGEST** and **FINEST** Stock of Sponges **EVER SEEN** in London. These Goods are the proceeds of the New Fishery, and have been collected **ON THE SPOT** by their Manager in Greece, assisted by **TWO** of their **LONDON PARTNERS**—Messrs. **F. R. & A. G. CRESSWELL**. They have been packed at the firm's own establishment at **Ægina (Greece)**, and no pains have been spared to ensure regularity in the selections. Buyers have here not only an unequalled choice, but goods at absolutely **FIRST HAND**.



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CRESSWELL BROTHERS & SCHMITZ have been honoured by the King of Greece with the decoration of the Cross of Knighthood (of which a facsimile is here reproduced) as a distinction earned by their efforts to promote direct business between that country and Great Britain. The conferring of this much-prized distinction upon the firm—the only one in the Sponge Trade so honoured—is a proof that they stand in an unrivalled position.

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The following Goods are the Best Value in the Trade:—

SPONGES IN ORIGINAL CASES.

Genuine unbleached goods as imported.

**HONEYCOMB
FINE TURKEY
AND
BROWN TURKEY**

At following average prices
per piece.

1 1/2d., 3d., 4 1/2d., 6d., 7d., 8d., 9d., 10d., 1/-
1/2, 1/3, 1/4, 1/6, 1/8, 1/9, 2/-, 2/3, 2/6,
2/9, 3/-, 3/3, 3/6, 3/9, 4/-, 4/6, 5/-, 6/-, 7/6
and upwards.

In 1st, 2nd, and 3rd qualities. Full details sent on application.

REPACKED CASES to contain **BUYERS' own Requirements.**

SPONGES in SMALL PACKAGES.

*Fine TURKEY, Fine EGYPTIAN and HONEYCOMB,
1st, 2nd, and 3rd Qualities.*

BLEACHED or UNBLEACHED. (State which in ordering.)

On Strings of 1 dozen pieces, or loose in Bags.

At per dozen.
2/- 3/- 4/- 6/- 9/- 12/- 15/- 18/- 24/- 30/- 36/- 42/- 48/- 54/- 60/- 66/- 72/-

To Buyers of original Cases, or over £5 worth of loose goods, and who wish to make a good display, C. B. & S. are willing to present a Photograph of Sponge Fishing, 15 in. by 10 1/2 in., together with Printed Show Bills. Mention when ordering.

LOOFAHS.—Direct importation, consisting of best and largest assortment ever received by one house. Send for Price List. Original bales (compressed) or small quantities swollen out. Chamois Leathers at Leather Dressers prices. Quality guaranteed.

2 1/2 PER CENT. DISCOUNT FOR PROMPT CASH; NET, THREE MONTHS. LOOFAHS NET.

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Sponge Importers, Exporters, 1 & 2 Red Lion Sq., London, W.C.
and Merchants, Additional Warehouse at 18 & 19.

SAVE MIDDLEMEN'S PROFITS, AND BUY FROM THE ONLY DIRECT IMPORTERS AND HOLDERS OF THE LARGEST STOCK EXTANT

BLEACHED CUBAN.

At per string or dozen.

WOOL, GRASS, YELLOW AND FINE.
1/- 2/- 3/- 4/- 6/- 9/- 12/-

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Fresh line, mounted on handsome blue card of new design.

We originated the Carding of sponges, and continue to supply the best goods on the market.

HONEYCOMB and TURKEY.

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| Toilet, 2d., 1 " " " " " " " " " " | 12/- | " 2/6, 1/2 " " " " " " " " | 180/- |
| " 3d., 1 " " " " " " " " " " | 18/- | " 3/-, 1/2 " " " " " " " " | 18/- doz. |
| " 4d., 1 " " " " " " " " " " | 24/- | Bath, 3/6, 1/2 " " " " " " " " | 21/- |
| " 6d., 1 " " " " " " " " " " | 36/- | " 4/-, 1/2 " " " " " " " " | 24/- |
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Highly recommended

OILS OF

NEROLY BIGARADE
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GERANIUM
(twice rect. on Rose flowers)

ORRIS (Crystallising at +15° Reaumur)

CLOVES (true Bourbon)

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Best
ORANGE

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ROSE

French

Universally appreciated

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SOLE AGENT *Mr Fredk. Boehm*

GRASSE

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Largest Importers of Geranium Reunion, Oil of

SPECIALITIES

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**FLOWER
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The highest saturation

**Concrete
Essential
Oils of
Flowers**

for Perfumers
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SONO & AKERDIE

Perfumes.

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DISTILLERS OF ESSENTIAL OILS,**7 COWPER STREET, FINSBURY, LONDON, ENGLAND.****EXPRESSED OILS****ALMOND** (Ol. Amygd. Dulc.)**PEACH KERNEL** (Ol. Amygd. Persic. Dulc.)

Frequently imported as Ol. Amygd. Exot.

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Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.**London Agents—STAFFORD ALLEN & SONS.**

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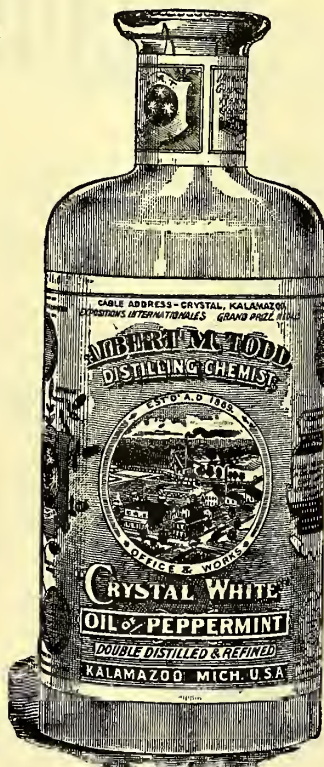
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These *ESSENTIAL OILS* are
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ABSOLUTELY PURE, and are
UNEQUALLED in
SOLUBILITY, FLAVOUR,
WHITENESS,
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Combines in one clear fluid every valuable
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For restoring the original colour of Grey Hair,
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**WHITE
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IT WILL NOT DYE.

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PURE AND PERFECT ARTICLE FOR
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REGISTERED
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Will purify and beautify the Teeth with a pearly whiteness,
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health, purity, and fragrance. Non-gritty, and absolutely
pure and harmless to use. Price One Shilling, in handsome
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The POPULAR DENTIFRICE, which Sells at Sight

Handsomely put up in Show-cases, as here shown. Printed
in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The COURT CIRCULAR says:—"Puriline" emanates from
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The Countess of ROSSLYN writes:—"Have been recom-
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CAPE TOWN, 1878.



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Made of selected materials. Superfatted and non-alkaline. In high repute among the Nobility and Aristocracy in England and the Colonies.

In Boxes of Three Tablets, per doz. boxes 12/-

VELOURS or VELVET SOAP.

Balsamic and Musk Odour; elegantly wrapped; Purest Soap; in Boxes of three Tablets, per doz. boxes 9/-.

TREBLE-MILLED Toilet Soap.

In Varieties—Windsor, Rose, Almond, Glycerine and Cucumber, Elder-flower, Violet, Heliotrope, Cold Cream, Opoponax, Honey, Cold Cream and Honey, in boxes of three tablets, per doz. 6/-.

In boxes of 12 tablets 22/-.

MEDICATED SOAPS.

Coal Tar, Carbolic, Camphor, Camphor and Carbolic, Juniper Tar and Borax Soap, in boxes of 3 tablets, per doz. boxes, 6'.

Special Brands from Special Formulas prepared with greatest care.

TOILET SOAPS IN VARIOUS SHAPED TABLETS.

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Tablets, 4, 5, or 6 to the pound, in 7-lb. and 14-lb. boxes, per cwt. 44/-.
ditto, cheaper, less perfume 38/-.

TRANSPARENT SOAPS.

Orange, Lemon, or Cedar, oval tablets, per gross 10/-
do. do., smaller size, do. 8/-

SPECIAL SOAPS FOR EXPORT TRADE FROM 28/-

PETROLEUM JELLY, pure white, in tins about 8 lbs., 56/- per cwt; 28 lbs., 50/- per cwt.; in barrels about 4 cwt., 46/- per cwt. Ditto, Yellow, tins 30/- per cwt.; 28 lbs., 28/- per cwt.; in barrels about 4 cwt., 24/- per cwt.

We will spare no effort to secure Business. A Trial Solicited.

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COOK'S TOILET SOAPS

Of every description, are GUARANTEED PURE.

SPECIALITIES:-

COOK'S "RIVIERA" SOAP

(SUPER-FATTED)

FOR THE COMPLEXION.

COOK'S "SAVON DE LUXE."

THE MOST LUXURIOUS SOAP MADE.

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PRESCRIBED BY THE LEADING DENTISTS.

SPECIALITIES MADE FOR THE TRADE.

COOK'S ANTISEPTIC SOAP

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For Curing and Relieving ECZEMA, RINGWORM, and all Skin Affections.

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The above Soaps can be obtained from Messrs. S. MAW, SON & THOMPSON, LONDON.

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Reduction in Price to the Trade from the 1st of April:—

5/6 size 32/- per dozen.
10/6 " 64/- " "

To be obtained Wholesale from R. HOVENDEN & SONS, & from all the principal Patent Medicine Warehouses in London

CAUTION.

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FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

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PERFECTLY PURE.

WRITE FOR OUR PRICES BEFORE ORDERING.

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TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.



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CALE ST., CHELSEA, S.W.
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AT LOWEST PRICES.
WRITE FOR QUOTATIONS.

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MAKERS of FLEXIBLE CAPSULES.

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Best Quality Envelopes. Best Quality Ingredients.  
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THE LARGEST SALE
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**WOODS' AREGA NUT
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Special terms sent on application for £5 worth.

WOODS & SON, Pharmacists, PLYMOUTH, ENGLAND.

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(ORIGINAL HAUS)

EAU DE COLOGNE

SUPERIOR TO ANY OTHER BRAND.

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VAN OPPEN & CO.

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WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE.

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and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.



A. S. LLOYD'S EUXESIS

FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in *BLACK INK*, and the signature of his Widow, AIMEE LLOYD, in *RED INK*. Refuse all others.

Manufacturer: **AIMEE LLOYD** (WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET),
3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.—When ordering from Wholesale Houses, write "LLOYD'S EUXESIS (WIDOW'S)." 81

BOWDLEAR'S FLOOR WAX

ALL READY. ANYBODY CAN APPLY IT. THE BEST THING FOR THE PURPOSE.
PULVERIZED for DANCING FLOORS.

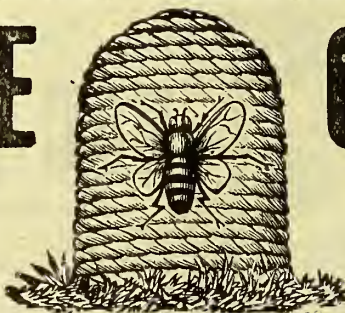
IS NOT WHITE. Will Not Ball on the Feet or Soil the Garments.

The FLOOR must be CLEAN and FREE from OIL.

W. H. BOWDLEAR & CO., BOSTON, MASS., U.S.A.
SARG'S ORIGINAL BEEHIVE BRAND

Sarg's GLYCERINE.

CERESINE
WAX.



CERESINE
WAX.

Sarg's GLYCERINE.

WHITE, NATURAL, YELLOW, & ORANGE. STOCK KEPT IN LONDON OF 15 DIFFERENT KINDS.

Supplied in square blocks, each wrapped in paper and packed in cases of 1 cwt. each.
None Genuine unless Cases, Wrappers, and Blocks are branded both with Maker's Name,
"SARG," and the "BEEHIVE" Trade Mark.

Sole Agent: FREDK. BOEHM, 4 Cullum St., LONDON, E.C.

INDEX AND BUYERS' GUIDE

See pages 61-64.

ESTABLISHED 1833.
HORSES.—LIEUT. JAMES'S BLISTER.



CAUTION.

The annexed Label is at the top of every Pot of the ORIGINAL and only GENUINE BLISTER.

The Messrs. Barclay & Sons, 95 Farringdon Street, London, and Messrs. Raimes & Co., Edinburgh, are now and have been Agents 57 years.

AGENTS:—Sutton & Co., 10 Bow Churchyard; W. Edwards & Son, 157 Queen Victoria Street; Newbery & Son, 37 Newgate Street; Evans, Leacher & Evans, Bartholomew Close; Burgoyne, Burdidges & Co., 16 Coleman Street; Lynch & Co., 171A Aldersgate Street; Southall Brothers and Barclay, Birmingham; R. Hovenden & Sons, 93 & 95 City Road, Finsbury; Sanger & Son, 150 Oxford Street; Millard & Sons, 40 Charterhouse Square; Corry & Soper, Shad Thames; A. A. Campbell, Leadenhall Street, London; Woolley, Sons & Co., 59 Market Street, Manchester; Apothecaries Company, Virginia St., Glasgow; John Thompson, 58 Hanover Street, Liverpool; Boileau & Co., Bride Street, Dublin; McMaster & Co., 121 & 122 Capel Street, Dublin; T. McMullin & Co. and J. Clarke & Co. (Lim.), Belfast; D. Galbraith, Londonderry; M. O. Delacre Pharmacie Anglaise, Bruxelles.

And by all Chemists, in Pots, 1/6, 2/9, 5/-, 9/-, and 16/-.

COLONIAL AGENTS:—MELBOURNE and WELLINGTON: Felton, Grimwade & Co.; SYDNEY, BRISBANE, and LAUNCESTON: Elliott Bros. & Co.; DUNEDIN and AUCKLAND: Kempthorne, Prosser & Co.; CALCUTTA: Smith, Stanistreet & Co.

W. H. JAMES, SOLE MANUFACTURER, FARRINGTON, BERKS.

Advertised in "Bell's Life" 54 years. Beware of Spurious Imitations.

INDIA.

PEAKE, ALLEN & CO.

CHEMISTS, DRUGGISTS,
AND
GENERAL MERCHANTS,
LUCKNOW, OUDH, INDIA,

Possess exceptional facilities for the introduction of NEW SPECIALITIES, Patent Medicines, Druggists' Sundries, Perfumery, &c.

SUPPORT HOME INDUSTRIES.



A.D. 1777.

BUY
KENT'S
BRUSHES.

See pp. 209-212, Summer Issue; also Diary, 1895-
pp. 445-448.

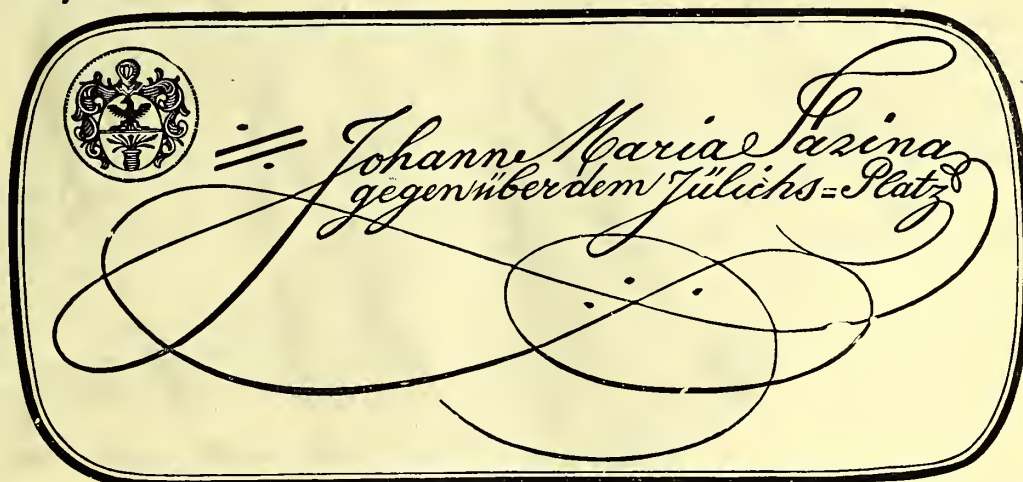
EAU DE COLOGNE

OF THE MOST ANCIENT DISTILLER,

JOHANN MARIA FARINA,
Opposite the Julichs Place, COLOGNE,

ESTABLISHED A.D. 1709.

PRIZE MEDALS:—LONDON, 1851 AND 1862 OPORTO, 1865; PARIS, 1867; VIENNA, 1873.

By appointment, Sole Purveyor to Her Most Gracious
Majesty Victoria, Queen of Great Britain & Ireland;
Their Royal Highnesses the Prince and Princess of
Wales; Albert II., King of Saxony;Their Majesties, William II., German Emperor and
King of Prussia; Alexander II., Emperor of Russia;
Francis Joseph, Emperor of Austria; Lewis, King
of Portugal.In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I
beg to submit my Price Current.At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the
protection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been
decided in my favour.All similar Labels being more or less imitations of the same, I shall proceed as before against all persons
selling or exposing for sale any such imitations.I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there
has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against my
bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam
Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra
7½ per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some
London House, or permission to draw on same at three months.The Goods can also be shipped in transit through London at a very small additional expense, full particulars
of which may be obtained of my Sole Agents for Great Britain and Ireland:—

MESSRS. J. & R. McCRACKEN,

No. 38 Queen Street, Cannon Street, LONDON, E.C.

The following are the sizes of my bottles:—

| | | | | | | | | | |
|-------|--------------------------|-----|-----|-----|-----|-----|-----|------------|-----------------|
| No. 1 | Long Green Flasks | ... | ... | ... | ... | ... | ... | 12 bottles | } to one dozen. |
| " 2 | Short White Bottles | ... | ... | ... | ... | ... | ... | 12 " | |
| " 3 | Double ditto | ... | ... | ... | ... | ... | ... | 6 " | |
| " 4 | Wickered Bottles (small) | ... | ... | ... | ... | ... | ... | 8 " | |
| " 5 | ditto (medium) | ... | ... | ... | ... | ... | ... | 4 " | |
| " 6 | ditto (large) | ... | ... | ... | ... | ... | ... | 2 " | |

JOHANN MARIA FARINA,

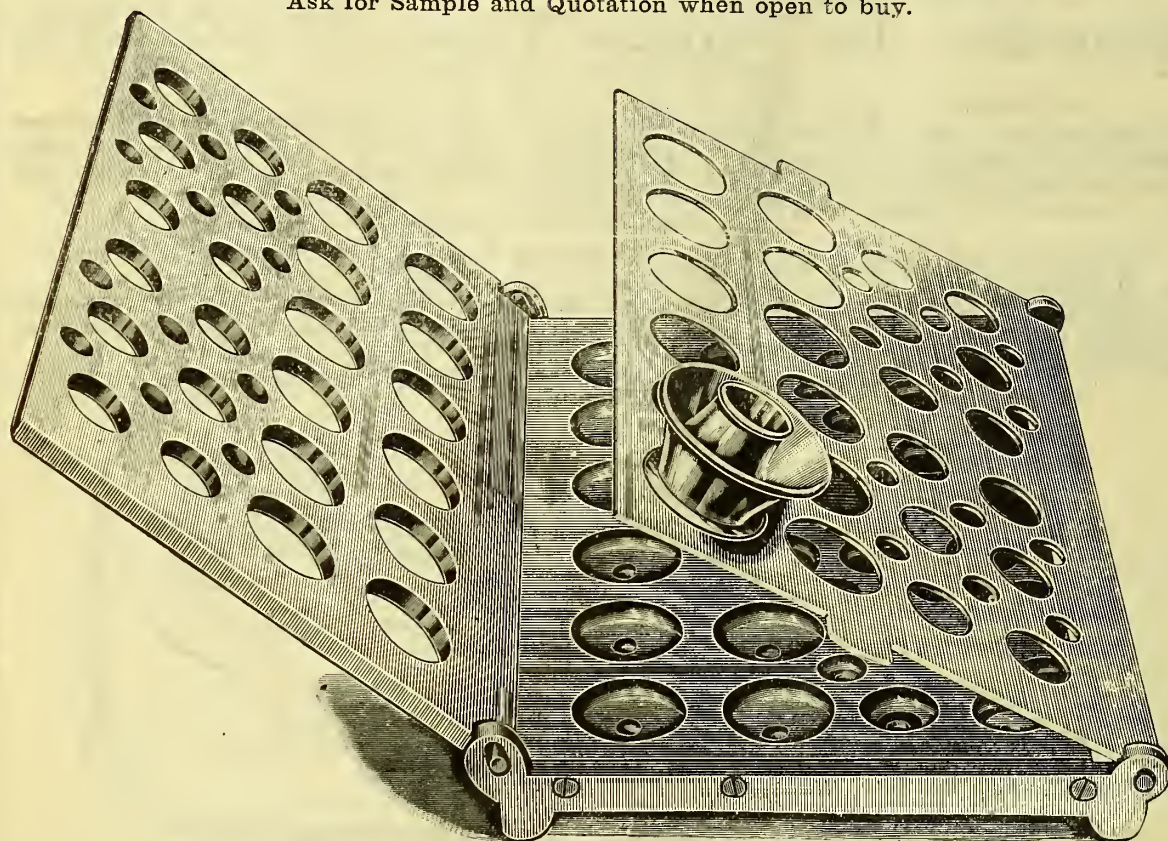
COLOGNE: January, 1895.

OPPOSITE THE JULICH'S PLACE.

PETROLEUM JELLY.

A1 QUALITY.—CONSTANT SUPPLY,—EQUAL THROUGHOUT.

Ask for Sample and Quotation when open to buy.



This is an apparatus without which no Pharmacy is complete, because—

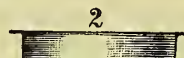
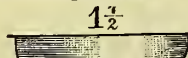
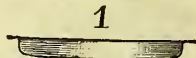
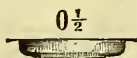
WITHOUT IT—Cachets are a nuisance!

WITH IT—Cachets form a *PROFITABLE LINE* and *AN UNEQUALLED VEHICLE FOR DISPENSING PROPRIETARY HEADACHE, NEURALGIA, OR OTHER POWDERS.*

COUNTLESS TESTIMONIALS!

UNIVERSAL SATISFACTION!

“MORSTADT” CACHETS are supplied in the following 6 sizes:—



IMPERMEABLE “CHRISTIA LINT.”

The backing to this absorbent material is **OIL—GREASE—CHLOROFORM—SPIRIT—PROOF**, and unaffected by hot or cold water.

Samples and Full Particulars on application to

THOMAS CHRISTY & CO., 25 LIME ST., LONDON, E.C.

ADEPS LANÆ N.W.K.

IS THE RECOGNISED

"STANDARD PREPARATION OF PURE WOOLFAT."

ITS CHARACTERISTICS ARE

GREAT SUPPLENESS AND LOW MELTING POINT (96° F.)

ADEPS LANÆ N.W.K. consists only of the low-melting, soft, supple, constituent parts of Pure Woolfat. Other Woolfats, from which the harder constituent parts have not been removed, melt at a much higher temperature, and are sticky. Being of itself soft and supple, ADEPS LANÆ N.W.K. requires no addition of water, although it will absorb water to the extent of 300 per cent. if desired. When great suppleness is required 20 per cent. to 25 per cent. of Paraffin Mollé should be added. This is a procedure far preferable to the crude kneading of Woolfat with water, which only results in changing the colour and not the consistency of the Woolfat to any appreciable degree. Again, when it is desirable to combine aqueous or other solutions of medicines, drugs, &c, with Woolfat, it is of advantage to use Woolfat which does not already contain water. ADEPS LANÆ N.W.K. is free from fatty acids, it does not become rancid, and is characterised by remarkable penetrative powers.

Professor Dr. UNNA, the well-known Dermatologist, recently published an extensive report upon ADEPS LANÆ N.W.K. in the "Monatshefte für Praktische Dermatologie." He repeatedly states that he now uses ADEPS LANÆ N.W.K. to the exclusion of all other preparations of PURE WOOLFAT, because he finds ADEPS LANÆ N.W.K. more advantageous, for many reasons, than any other similar preparation.

In PLASTER MAKING, ADEPS LANÆ N.W.K. is specially recommended by Professor Dr. UNNA and others.

NORDDEUTSCHE WOLLKAMMEREI & KAMMGARNSPINNEREI, BREMEN,
CHEMICAL DEPARTMENT.

ADEPS LANÆ N.W.K. is supplied Anhydrous, at 2/- per lb., or at 1/11 per lb. in 7-lb. Tins.

Special for Plaster Making, PALE NEUTRAL WOOLFAT.

PARTICULARS ON APPLICATION TO

THOMAS CHRISTY & CO., 25 LIME ST., LONDON, E.C.

INFLUENZA.

WYETH'S BEEF JUICE

IS ACKNOWLEDGED THE BEST

NOURISHING AND

STIMULATING FOOD

For Restoring the Tone; Strengthening
and Nourishing the System, in an
attack of Influenza, and in Con-
valescence from the same.

~~~~~  
Being LARGELY PRESCRIBED by PHYSICIANS at this time of the  
EPIDEMIC, all RETAIL CHEMISTS should keep up their Stock of

## **WYETH'S BEEF JUICE.**

*To be obtained from all Wholesalers.*

**JOHN WYETH & BROTHER**

MANUFACTURING PHARMACEUTICAL CHEMISTS,

**PHILADELPHIA, U.S.A.; & 30 SNOW HILL, LONDON, E.C.**



# SYR. HYPOPHOS. CO., FELLOWS

**CONTAINS THE ESSENTIAL ELEMENTS** of the Animal Organisation—Potash and Lime;

**THE OXIDISING AGENTS**—Iron and Manganese;

**THE TONICS**—Quinine and Strychnine;

**AND THE VITALISING CONSTITUENT**—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION**.

**IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS**, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.

**IT HAS GAINED A WIDE REPUTATION**, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

**ITS CURATIVE POWER** is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

**ITS ACTION IS PROMPT**; it stimulates the appetite and the digestion it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

## NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

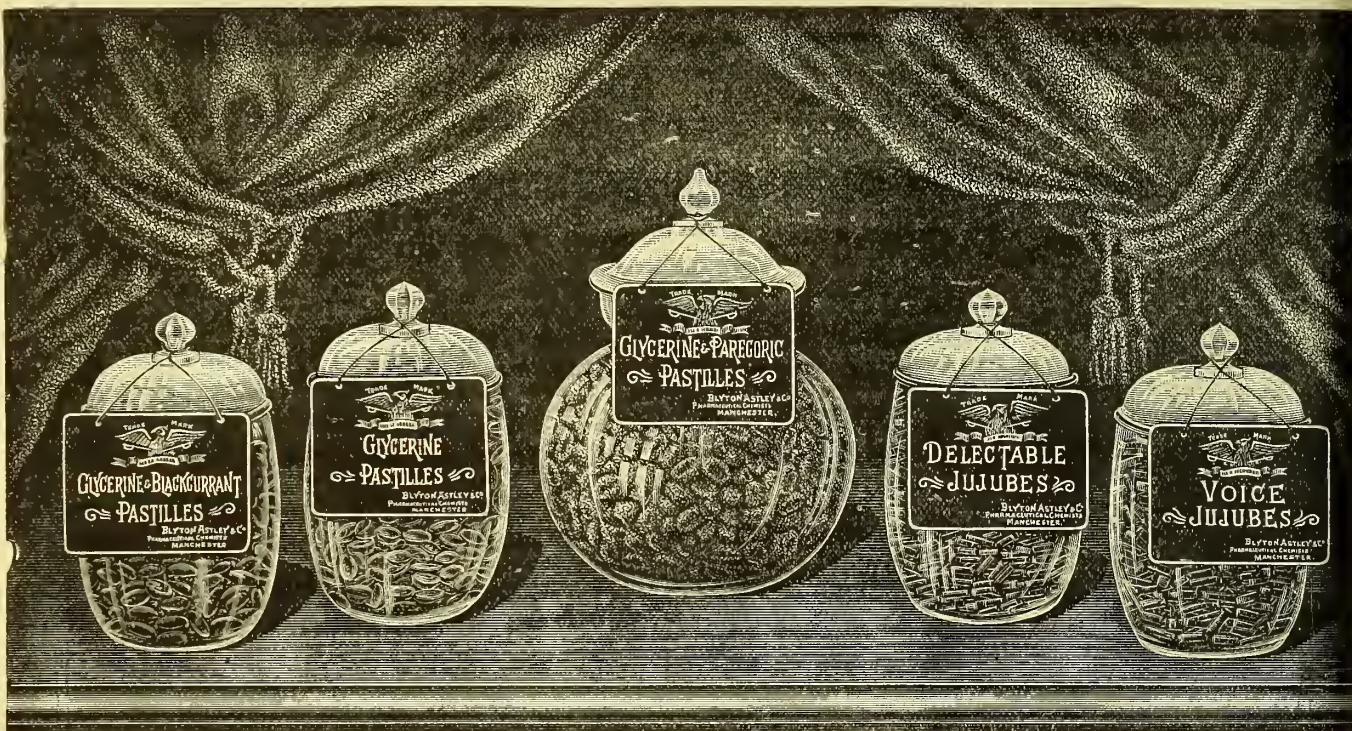
As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

**BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.**





# JUJUBES and PASTILLES.

MANUFACTURED BY

**BLYTON, ASTLEY & Co.,** Manufacturing Pharmacists,  
**MANCHESTER.**

## SALES

Doubled, sometimes Trebled,  
by suitable display  
of these Jars.

**WHY HIDE YOUR GOODS IN TIN BOXES?**

*Try a set of Jars. The result will surprise you.*

4-lb. Jars, 2/- per lb. nett. Glycerine and Paregorics, 1/8 per lb.  
Jars, 1/- each, nett.



# Armour's

LABORATORY  
PRODUCTS.



## PEPSIN.

3000 test six hours.

Guaranteed five times B.P. strength.

- (a) **INSOLUBLE POWDER** (non-hygrosopic).  
 (b) **GRANULAR** (soluble and non-hygrosopic).  
 (c) **POWDERED GRANULAR** (do. do.).  
 (d) **SCALE** (do. do.).

## GLYCEROLE PEPSIN.

## GLYCEROLE PANCREATIN.

## ESSENCE PEPSIN.

## NUTRIENT WINE OF BEEF PEPTONE.

## TABLETS OF PURE PEPSIN.

3 GRAINS EACH.

In Flat Bottles for the Pocket.

## LACTATED PEPSIN.

A Perfect Combination of the Digestive  
Ferments.

## CHEMISTS

desirous  
of cultivating  
business  
with  
Medical Men  
should  
take advantage of  
the facilities  
ARMOUR & CO.  
offer.

Full details on  
application.

## PEPTONISING TABLETS.

PURE PANCREATIN .. .. 2½ grains.

SODIUM BI-CARBONATE .. 8 "

*Recipes furnished for Pre-digesting Milk and  
other Foods.*

## BEEF PEPTONE. Paste.

## BEEF PEPTONE. Powder.

## OX GALL. Inspissated.

15 volumes = 100 volumes fresh Ox Gall.

## OX GALL. Desiccated.

## DESICCATED BLOOD.

## PURE POWDERED BEEF.

## DRIED THYROIDS.

## EXTRACT OF BEEF.

For manufacturing purposes.

## VIGORAL.

## ARMOUR'S FORMULARY,

Containing many valuable Recipes, the use of which is free to all  
Pharmacists, will be sent gratis on application.

Cookery Book free.

ARMOUR'S  
EXTRACT OF BEEF  
MANUFACTURED & PACKED BY  
ARMOUR & CO.  
Chicago, USA

Saves fuel in preparing  
many dainty dishes.  
No burnt taste.  
Keeps well in any climate.

## PEPSIN

*As a Therapeutic Agent in Surgery.*

EXTRACT FROM AN  
ARTICLE BY

THOMAS O. SUMMERS, Esq., M.D., &c.

"Of all the therapeutic agents with which  
surgery has been recently flooded, there is  
none which has commanded greater attention  
and given greater satisfaction than pepsin in  
its application to diseased skin and mucous  
surfaces."—*N. Y. Medical Journal*, Feb. 3rd.

## ARMOUR & CO.,

59 Tooley Street, London, S.E.,

Will forward complete copy of this article and  
free sample of their pure aseptic high testing  
pepsin on application.



# CAPSULED "McK. & R." PILLS.

McKesson & Robbins : Originated 1870 : New York.

## WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

## LIST OF PRINCIPAL CAPSULED PILLS.

<b>Aloes, all the B.P. combinations</b> ..... 5 gr.		<b>Laxative, Vegetable—</b>	
<b>Aloes, Dilute (Dr. Hall Dianer Pill)</b> ..... 4 gr.		Res. Podoph.	<b>Ext. Coles. Co.</b> ..... 1 gr.
<b>Aloes Barb.</b> ..... 1 gr.		Ext. Hyoscy.	<b>Jalapae</b>
<b>Saponis Pulv.</b> ..... 1 gr.		<b>Ext. Tarax. aa</b> ..... 1-4 gr.	<b>Res. Leptand. aa</b> ..... 1-2 gr.
<b>Aloes and Nux Vomica—</b>			<b>Ol. Menth. Pip.</b>
<b>Aloes Sec.</b> ..... 1½ gr.   <b>Ext. Nucis Vom.</b> ..... ½ gr.			
<b>Aloin</b> ..... ½, 1, 1 gr.			
<b>Aloin, various combinations.</b>			
<b>Anti-Dyspepsia (Fothergill)—</b>			
<b>Strychnine</b> ..... ½ gr.   <b>Pulv. Ipecac.</b> ..... 2-3 gr.			
<b>Pulv. Piper Nig.</b> ..... 1½ gr.   <b>Ext. Gent.</b> ..... 1 gr.			
<b>Arsenious Acid</b> ..... 1-20, 1-50 gr.			
<b>Asafoetida, U.S. and B.P.</b> ..... 5 gr.			
<b>Atropine</b> ..... 1-100, 1-300 gr.			
<b>Blue Pill, B.P.</b> ..... 1, 2, 3, 5 gr.			
<b>Blue Pill, with Coleocynth and Hyoscyam.</b> ..... 5 gr.			
<b>Calcium Sulphide</b> ..... 1-10, 1-4, 1-2, 1 gr.			
<b>Calemel, Coleocynth, and Hyoscy.</b> ..... 5 gr.			
<b>Calemel Co., B.P.</b> ..... 5 gr.			
<b>Camphor and Hyoscyam</b> ..... 2 gr.			
<b>Camphore.</b>   <b>Ext. Hyoscy., aa</b> ..... 1 gr.			
<b>Cannabis Indica</b> ..... 1-4, 1-2 gr.			
<b>Cascar Sagrada</b> ..... 3 gr.			
<b>Cathartic Comp., U.S.P.</b>			
<b>Ext. Jalap</b> ..... 1 gr.   <b>Hyd. Subchlor.</b> ..... 1 gr.			
<b>Ext. Coloc. Co.</b> ..... 1-3 gr.   <b>Gambog.</b> ..... 1-4 gr.			
<b>N.B.—The ready solubility of the "McK. &amp; R." Pills is readily</b>			
<b>proved by taking a dose of these.</b>			
<b>Coleocynth Comp., B.P.</b> ..... 4, 5 gr.			
<b>Coleocynth, other combinations.</b>			
<b>Copaiba Compound—</b>			
<b>Onbeba Pulv.</b> ..... 2 gr.   <b>Mass. Copalb.</b> ..... 1 gr.			
<b>Ferr. Sulph. Exsic.</b> ..... 1-2 gr.   <b>Tereb. Venet.</b> ..... 1-2 gr.			
<b>Corrosive Sublimate</b> ..... 1-30, 1-20, 1-10 gr.			
<b>Croton Oil</b> ..... 1-2 gr.			
<b>Diuretic—</b>			
<b>Ext. Buchu, Potass. Nitrat.</b> ..... 1 gr.			
<b>Sellae Pulv.</b> ..... 1-2 gr.			
<b>Emmenagogue—</b>			
<b>Ferr. Sulph. Exsic.</b> ..... 1-2 gr.			
<b>Thus, American</b> ..... 1-2 gr.			
<b>Aloes Socot.</b> ..... 1-2 gr.			
<b>Ergotia</b> ..... 3 gr.			
<b>N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This</b>			
<b>form is more reliable and uniform in effect and more agreeable</b>			
<b>than the liquid preparations.</b>			
<b>Euonymia</b> ..... 2, 3 gr.			
<b>Iodoform and Iodoform with Iron</b> ..... 1 gr.			
<b>Ipecac.</b> ..... 1-4, 5 gr.			
<b>Ipecac. Co.</b> ..... 5 gr.			
<b>Ipecac. and Squill, B.P.</b> ..... 5 gr.			
<b>Iron Pill, B.P. Add.</b> ..... 3, 5 gr.			
<b>Iron Arsenate</b> ..... 1-8 gr.			
<b>Iron reduced by Hydrogen (Quevenne)</b> ..... 1, 4 gr.			
<b>Iron and Quinine Citrate</b> ..... 2 gr.			
<b>Mercury, Biniodide</b> ..... 1-16 gr.			
<b>Mercury, Proto-iodide</b> ..... 1-20, 1-16, 1-8, 1-4 gr.			
<b>N.B.—Made from the absolutely pure yellow impalpable</b>			
<b>powder, free from mercury and from biniodide.</b>			
<b>So-called "green" proto-iodide contains uncombined mercury.</b>			
<b>Mercurv with Chalk</b> ..... 1 gr.			
<b>Morphine Muriate</b> ..... 1-8, 1-4 gr.			
<b>Nitro-Glycerine</b> ..... 1-200, 1-100, 1-50 gr.			
<b>Opium</b> ..... 1 gr.			
<b>Opium and Camphor</b> ..... 1 gr.			
<b>Opil Pulv.</b> ..... 1 gr.   <b>Camphore</b> ..... 2 gr.			
<b>Pepsin, Pure</b> ..... 1 gr.			
<b>Phosphorus</b> ..... 1-100, 1-50, 1-30 gr.			
<b>N.B.—In no kind of Pill are the advantages of the</b>			
<b>"McK. &amp; R." method better exemplified or more in request.</b>			
<b>No other brand of Phosphorus Pills is equally reliable for the</b>			
<b>administration of the unoxidised medicament.</b>			
<b>Phosphorus and Iron—</b>			
<b>Phosphor. Pur.</b> ..... 1-50 gr.   <b>Ferr. Redact.</b> ..... 2 gr.			
<b>Phosphorus, Iron, and Quinine—</b>			
<b>Phosphor. Pur.</b> ..... 1-100 gr.   <b>Ferr. Carb.</b> ..... 1 gr.			
<b>Quinine Sulph.</b> ..... 1 gr.			
<b>Phosphorus and Nux Vomica—</b>			
<b>Phosphor. Pur.</b> ..... 1-50 gr.   <b>Ext. Nucis Vom.</b> ..... 1-4 gr.			
<b>Phosphorus and Quinine—</b>			
<b>Phosphor. Pur.</b> ..... 1-50 gr.   <b>Quinine Sulph.</b> ..... 1 gr.			
<b>Phosphorus and Valerianate of Zinc—</b>			
<b>Phosphor. Pur.</b> ..... 1-50 gr.   <b>Zinci Valer.</b> ..... 1 gr.			
<b>Pterotoxin</b> ..... 1-80 gr.			
<b>Pedephyltin</b> ..... 1-8, 1-4, 1-2 gr.			
<b>Quinine, Bisulphate</b> ..... 1-4, 1-2, , 3, 4, 5 gr.			
<b>Quinine, Sulphate</b> ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.			
<b>Quinine Co. (Anti-Malarial).</b>			
<b>Largely prescribed in America with excellent results.</b>			
<b>Rhubarb Comp., B.P.</b> ..... 5 gr.			
<b>Rhubarb with Blue Pill</b> ..... 5 gr.			
<b>Salicylic Acid</b> ..... 2, 5 gr.			
<b>Soap Comp., B.P.</b> ..... 5 gr.			
<b>Squill Comp., B.P.</b> ..... 5 gr.			
<b>Strophanthus</b> ..... 1-20, 1-4 gr.			
<b>Strychnine</b> ..... 1-50 gr.			
<b>Tenae Laxative (Fothergill)—</b>			
<b>Quinine Sulph.</b> ..... 2-3 gr.   <b>Ferr. Redact.</b>			
<b>Strychn.</b> ..... 1-30 gr.   <b>Ext. Bellad., aa</b> ..... 1-4 gr.			
<b>Valerianates, Iron, Quinine, and Zinc.</b>			
<b>Warburg's Tincture and the same without Aloes.</b>			
<b>Each Pill = 1 fl. drgm. of the Tincture.</b>			
<b>Zinc Phosphide</b> ..... 1-4, 1-2 gr.			
<b>Zinc Valerianate</b> ..... 1 gr.			

Special Combinations of 8,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

London Agency:—Messrs. S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.

ALSO SUPPLIED BY

MESSRS. BURBOUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.C.;

MESSRS. GRIMWADE, RIDLEY & CO., 7 Union Court, Old Broad Street, London, E.C.





# A FEW FRIENDLY WORDS

TO

## Chemists in Tropical Countries.

Inland Telegraphic Address—"BIPALATINOID LONDON."

Cable Address, A B C Code—"OPERATOR LONDON."

14 Worship Street, London, E.C.

20 April, 1895.

Dear Sir,

We intend shortly introducing our goods into your country. We shall be sending travellers to work up a demand for our preparations. We are desirous that you should know the claims to your attention of our various manufactures.

You probably know better than we do that many sorts of Pills and Compressed goods will not stand the heat and damp of tropical climates—in "Palatinoids" and "Bi-Palatinoids" we have an elegant substitute. Of course, we are aware that the great consideration with you is, Will they keep? It was for the purpose of testing this that we forwarded to the Editors of the INDIAN MEDICAL RECORD specimens of our "Palatinoids" and "Bi-Palatinoids" soon after their introduction. Their report speaks volumes:—

*"We have tried 'Palatinoids' and 'Bi-Palatinoids' through the present monsoon weather with its attendant dampness and heat. They have stood the test admirably, those remaining being as perfect as when we received them."*

We were not content with this, however, but subjected them to a further test. They were taken round the world, exposed to damp and heat, and REMAINED PERFECT. Dr. Felix Roth, a physician with large experience in the Niger district, tells us that

*"While Pills and Compressed goods proved most disappointing, either by reason of inactivity or liquefaction, 'Palatinoids' have always been found reliable and permanent under the most unfavourable conditions."*

"Palatinoids" and "Bi-Palatinoids" have received such testimony, both from the Medical Profession and the Press, as has never before been accorded to any Pharmaceutical improvement whatever. Why is this? Because, as a well-known Practitioner writes:—"They are the Acme of Perfection." We have here all the requirements for an ideal form of medication.

### MERIT WILL TELL!

This was shown at the Eleventh International Congress of Medicine, held in Rome last spring, where a Jury of Professors judged "Palatinoids" and "Bi-Palatinoids" worthy of the distinction of a GOLD MEDAL, we being the only house to whom this honour was given. Hitherto our efforts have been almost entirely confined to the home trade. We have had as much as we could do to manage this. We struck out an original line; we anticipated success; and we have succeeded. Now we take a look abroad, and, with our home experience to back us up, we do so with every feeling of confidence. We invite your co-operation.

### OUR METHODS OF BUSINESS.

We thoroughly sample your medical men with our preparations, at the same time sending a representative to distinctly bring our goods before their notice. What follows? A good demand springs up, the benefit of which is mutual. The goods are elegant in appearance, and certainly superior to any similar preparations on the market.







## HOW "PALATINOIDS" & "BI-PALATINOIDS" ARE PUT UP.



"Palatinoids" and "Bi-Palatinoids" for tropical countries are put up in elegant little glass-stoppered bottles, neatly labelled, one dozen in a carton forming a very attractive saleable package, which adds to the neatness of the Chemist's counter. The accompanying blocks will give some idea of their appearance.

## WE INVITE YOUR CORRESPONDENCE.

If you have seen "Palatinoids" we feel sure their elegance, accuracy of dosage, quality of contents, as well as their ease of deglutition and absence of extraneous excipient, will at once strike you. We shall be pleased to forward you specimens of them. May we do so? The "Palatinoid" and "Bi-Palatinoid" form of medication is comparatively new, having only been on the market four years. We append blocks showing the actions of the "Palatinoid" and "Bi-Palatinoid" in water.

*Palatinoid or*

*Palatinoid*

*Enlarged*

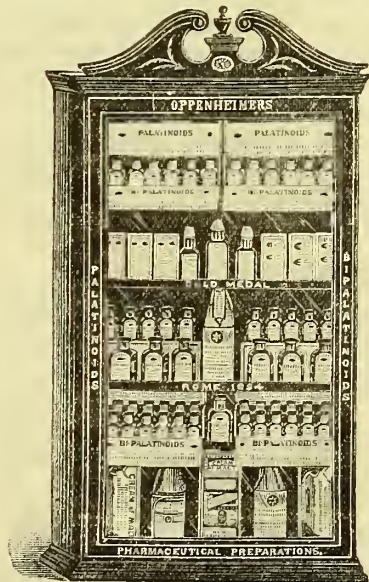


*Bi-Palatinoid Closed.*

*Open.*

*Bi-Palatinoid Open.*

By this you will see that when a "Palatinoid" is placed in moisture at the temperature of the stomach, it opens after three minutes' immersion, something like an oyster, and the drug is ejected. One of the great features of the "Palatinoid" is that it can be so easily swallowed. We find bad pill-takers and children swallow them with the greatest ease. If you take up "Palatinoids," please note you introduce to your customers the most perfect form of medication known. We shall be pleased to send you an assortment of, say, £20 worth of our goods, and this amount will entitle you to one of our elegant upright rosewood showcases, with bevelled plate-glass front, handsomely inlaid with ivory-wood. Here is a block representing same.



Finally, are you a Progressive Chemist? If so, you are the person we want, with whom we can do business as beneficial to you as to ourselves. We do not endeavour to persuade you that we are doing business for your benefit alone. We desire to help ourselves at the same time, but we want it to be mutual. An order for the net

amount mentioned would establish you as a Depôt, and we will assist in the disposal of the stock in every possible way.



From a list of some 250 Formulas of "Palatinoids" we select the following, which are in large demand:

	Per Doz. 1/- Bottles.	Per Grs.		Per Doz. 1/- Bottles.	Per Grs.
Aconite Tinct., 1 min. . . . .	8/6	2/6	Ginger Tinct., 5 mins. . . . .	8/6	2/6
Aloes Compound . . . . .	8/6	2/6	Hepatic Comp. . . . .	8/6	3/-
Aloin Compound . . . . .	8/6	2/6	Hydrarg. c. Oretā, 1 gr. . . . .	8/6	2/-
Aloin, with Jalapin Comp. . . . .	8/6	3/-	Hydrarg. Subchlor, 2 grs. . . . .	8/6	2/6
Aloin, Nux, and Belladonna . . . . .	8/6	3/-	Hyoseyamus Tinct., 10 mins. . . . .	8/6	2/6
Aloin, Strychnine, and Belladonna . . . . .	8/6	3/-	Iodoform, 1 gr. . . . .	8/6	5/6
Aloin, Podophyllin, and Belladonna . . . . .	8/6	2/6	Lapactic . . . . .	8/6	3/-
Alterative Comp. . . . .	8/6	2/6	Laxative . . . . .	9/6	4/-
Antacid (Soda Mint) . . . . .	8/6	2/6	Laxatonic . . . . .	8/6	3/-
Antibilious . . . . .	8/6	2/6	Manganese Diox., 2 grs. . . . .	8/6	2/6
Anticonstipation . . . . .	8/6	2/6	Menthol, 1 gr. . . . .	10/6	4/6
Antifebrin, 2½ grs. . . . .	8/6	2/6	Migraine . . . . .	9/6	3/6
Aperients, Fort. . . . .	8/6	2/6	Morphine Hydrochlor., ¼ gr. . . . .	8/6	3/-
Belladonna Tinct., 5 mins. . . . .	8/6	2/6	Neuralgic Comp. . . . .	8/6	2/6
Bismuth Carb., 4 grs. . . . .	8/6	3/-	Nux Vomica Tinct., 5 mins. . . . .	8/6	2/6
Bismuth Subnit., 2 grs. . . . .	8/6	2/6	Opium, ½ gr. . . . .	8/6	3/-
Bismuth Subnit., with Pepsin . . . . .	8/6	3/-	Opium, with Calomel . . . . .	8/6	3/-
Butyl Chloral Hydrate, 5 grs. . . . .	—	5/6	Opium and Belladonna . . . . .	8/6	3/-
Caffeine Citrate, 2½ grs. . . . .	8/6	2/6	Opium Tinct., 5 mins. . . . .	8/6	2/6
Calcium Sulph., ½ gr. . . . .	8/6	2/6	Pectoral Comp. . . . .	8/6	2/6
Camphor, 1 gr. . . . .	8/6	2/6	Pepsin and Gingerine . . . . .	8/6	2/9
Camphor Co. . . . .	8/6	2/6	Pepsinum-Oppenheimer, ½ gr. . . . .	8/6	2/6
Cannabis Tinc., 5 mins. . . . .	8/6	2/3	Peptonic . . . . .	9/6	3/9
Capsicum Tinc., 2 mins. . . . .	8/6	2/6	Phenacetic and Caffeine Citrate aa, 2½ grs. . . . .	3/6	3/-
Cascara Sagrada Ext., 2 grs. . . . .	8/6	2/9	Phenacetic, 5 grs. . . . .	8/6	3/-
Cascara Sagrada Co. . . . .	8/6	2/6	Podophyllin, ½ gr. . . . .	8/6	2/6
Cascara, Nux, and Belladonna . . . . .	8/6	2/6	Podophyllin and Calomel . . . . .	8/6	2/6
Cathartic Comp. . . . .	8/6	2/6	Potassium Bromide, 2 grs. . . . .	8/6	3/6
Cerium Oxalate, 2 grs. . . . .	8/6	2/6	Potassium Permang., 1 gr. . . . .	8/6	2/6
Codeia, ½ gr. . . . .	—	9/3	Quinine and Gelsemin . . . . .	8/6	3/6
Creasote, ½ min. . . . .	8/6	3/6	Quinine Sulph., 1 gr. . . . .	8/6	1/3
Digestive . . . . .	8/6	2/6	Quinine Sulph., 2 grs. . . . .	8/6	1/9
Digitalis Tinct., 10 mins. . . . .	8/6	2/6	Quinine Valerianate, 1 gr. . . . .	8/6	3/-
Dover's Powder, 4 grs. . . . .	9/6	4/-	Rheumatic Comp. . . . .	8/6	2/6
Emmenagogue . . . . .	8/6	4/6	Rhubarb Comp., 5 grs. . . . .	8/6	2/6
Ergotin Comp. . . . .	—	4/6	Rhubarb Comp. and Grey Powders . . . . .	8/6	2/6
Eucalyptol, 1 min. . . . .	8/6	3/6	Saccharin, ½ gr. . . . .	8/6	2/6
Euonymin, 2 grs. . . . .	8/6	3/6	Salol, 5 grs. . . . .	8/6	2/9
Euonymin and Cascara Co. . . . .	8/6	2/6	Santal Comp. . . . .	9/6	4/-
Euonymin and Podophyllin . . . . .	8/6	2/6	Santouin and Calomel . . . . .	8/6	3/-
Ferri Peptonas, 1 gr. . . . .	8/6	2/6	Sodium Bicarb., 4 grs. . . . .	8/6	2/6
Ferri Phosph. Co. (Parrish's Food) . . . . .	8/6	3/6	Stomachic . . . . .	8/6	2/-
Ferri et Quin. Citr., 2 grs. . . . .	8/6	2/6	Salphonal, 5 grs. . . . .	3/6	3/-
Ferri Sulph. et Aloes . . . . .	8/6	2/6	Sulphur Comp. . . . .	8/6	2/6
Ferri Sulph. c. Aloes et Nux . . . . .	8/6	3/-	Thymol, 1 gr. . . . .	8/6	3/-
Ferrum Redactum, 2 gr . . . . .	8/6	2/3	Thyroid Gland, ½th (equiv.) . . . . .	8/6	3/6
Ferrum Redactum et Ergotin . . . . .	8/6	4/-	Tonic Comp. . . . .	8/6	2/6
Gelsemium Tinct., 5 mins. . . . .	8/6	2/6	Zinc Oxide, 1 gr. . . . .	8/6	2/6
			Zinc Valerianate, 1 gr. . . . .	8/6	3/-

Also "Palatinoids" of the Pill Formule of the British Pharmacopœia.

Of "Bi-Palatinoids," the following are suggested as stock, being much asked for:—

	Per Doz. 1/- Bottles.	Per Grs.		Per Doz. 1/- Bottles.	Per Grs.
errous Carbonate (Bland's Pill, 4 grs.) . . . . .	8/6	2/6	Ferrous Carbonate, with Ext. Cascara . . . . .	9/6	3/6
Ferrous Carbonate (Bland's Pill, 8 grs.) . . . . .	9/6	3/6	Sagrada and Nux Vomica . . . . .	9/6	3/6
Ferrous Carbonate and Arseniate . . . . .	9/6	3/6	Ferrous Carbonate, with Potass. Permang. . . . .	9/6	3/6
Ferrous Carbonate, with Aloes . . . . .	9/6	3/6	Ferrous Phosphate, with Potass. Permang. . . . .	9/6	3/3
Ferrous Carbonate, with Aloes and Nux . . . . .	9/6	3/6	Potass. Permang., Ergotin, and Nux Vomica . . . . .	9/6	3/6
Ferrous Carbonate, with Aloes and Quinine . . . . .	9/6	3/6	Potass. Permang., with Sodium Arsen. and Aloes . . . . .	9/6	3/6
Ferrous Carbonate, with Nux and Quinine . . . . .	9/6	3/6	Potass. Permang., with Strych. and Quinine . . . . .	9/6	3/6
Ferrous Phosphate . . . . .	9/6	3/6	Ferrous Carbonate and Euonymin . . . . .	9/6	3/6
Ferrous Phosphate, with Nux and Quinine . . . . .	9/6	3/6	Ferrous Carbonate, Nux Vomica, Euonymin, and Belladonna . . . . .	9/6	3/6
Hypophosphites Co. (each equivalent to a teaspoonful of the B.P. Syrup) . . . . .	9/6	3/6	Ferrous Carbonate, Zinc Valerianate, and Cascara . . . . .	9/6	3/6
Ferrous Carbonate, with Ext. Cascara Sagrada . . . . .	9/6	3/6	Ferrous Salicylate, 2 grs. . . . .	9/6	3/6

YOURS VERY FAITHFULLY,

OPPENHEIMER, SON & CO., Limited.



**"Tabloids" of Compressed Drugs :**HYPODERMIC, OPHTHALMIC, TINCTURE, PHOTOGRAPHIC  
"TABLOIDS" AND "SOLOIDS."

THEIR VARIOUS USES.

"Tabloids" of compressed drugs have now become so popular that their sphere of usefulness daily widens, and are now used and sought in directions little contemplated when first introduced into medicine. The following departments are already familiar to both physician and pharmacist.

**HYPODERMIC "TABLOIDS."**

These obviate the many objections to ready-made solutions, and meet every possible requirement. Time and again it has been shown that solutions which have been made for some time cannot be used without incurring grave risks. By using Hypodermic "Tabloids" a solution may be made with ease and celerity at the time of using—thus doing away with the possibility of deterioration and the consequent production of untoward effects. With these ends in view we introduced Hypodermic "Tabloids," each "Tabloid" containing an absolutely exact quantity of alkaloid or other agent, combined with a perfectly stable and innocuous base. That the active principle must be pure goes without saying, but it is also a *sine qua non* that the basis used should be completely inert. The presence of an extraneous substance for the purpose of either hastening disintegration or aiding the dissolution of principles which, though therapeutically powerful, are yet delicate of constitution, is highly objectionable; indeed, an acid salt is likely to be positively injurious to the system when subcutaneously introduced, even if it do not interfere with the action of the drug with which it may be associated. The *British Medical Journal* reports on Hypodermic "Tabloids" that they are "free from irritative acid salts," thus recognising this very important characteristic; and the *Lancet* also says of them that they are "very soluble and not at all irritating." Further, "Tabloids" obviate the possibility of over-dosage, since each contains one dose and no more. Quain, in the new edition of his "Dictionary of Medicine," bears witness to this point. The *modus operandi* with Hypodermic "Tabloids" is simplicity itself. A very prominent advantage in connection with these "Tabloids" is their extreme portability. A tube, less than two inches long and about the diameter of a goose-quill, holds in most instances twenty doses, and a number of tubes of various agents sufficient to meet a very wide range of requirements may be carried in the waistcoat pocket without their presence being felt.

**OPHTHALMIC "TABLOIDS."**

These are minute discs as thin as note-paper, extremely delicate in appearance, very soluble, and prepared with a perfectly sterile, innocuous, and non-irritating basis. With two exceptions they are intended to be inserted within the conjunctival sac as they are, and when placed *in situ*, the eye being kept closed for a few minutes after insertion, they are immediately dissolved in the secretion and diffused over the surface of the eye. Each "Tabloid" holds a definite quantity of alkaloid, and it will be found in those which contain Cocaine in addition to another ingredient—as, for instance, Atropine or Eserine—that anaesthesia of the cornea is readily produced without in the least impairing the desired physiological effect. The mydriatic "Tabloids" are very rapid in their action, paralysis of the

accommodation and dilatation of the pupil being established in fifteen minutes: this in ophthalmoscopic examinations is a benefit which can scarcely be overrated. The Boracic Acid and Mercury Perchloride "Tabloids" are intended to be converted into solutions for cleansing and deodorising purposes: a Boracic Acid lotion may be prepared by simply dissolving two "Tabloids" in two or three ounces of water.

**TINCTURE "TABLOIDS."**

It is of the utmost consequence to a medical practitioner that the remedies he prescribes should, with regard to strength and constitution, be uniformly what they are represented; but it is a well-known and universally-recognised fact that this requirement is not met in ordinary tinctures. It is only in very exceptional cases that the properties of spirit are desired by the prescriber; therefore, there is no reason why it should be retained. We have made this fact the basis of exhaustive experiments, and, as the result of the expenditure of much time and trouble, we succeeded in preparing "Tabloids" of Tinctures, containing all the active principles and all the therapeutic activity of the Tinctures themselves, but without the alcoholic body. "Tabloids" of Tinctures are very small, consequently very easy to swallow; being prepared from freshly-standardised Tinctures they are absolutely accurate in dosage, each "Tabloid" representing a given quantity of Tincture, and thereby doing away with the necessity for measurement. One of the most important characteristics of Tincture "Tabloids" (and, for the matter of that, of "Tabloids" generally) is their extreme portability, which offers to business people, and to all who are continually moving about, such facilities for taking their prescribed doses with regularity as are obtained by no other method.

**PHOTOGRAPHIC "TABLOIDS."**

Photographic "Tabloids" are now so popular—especially among amateurs, for whom they are primarily intended—that they make a most profitable extra line for pharmacists. They do away with so many of the difficulties which beset photographers of all grades that if once used they are used always. They do not readily deteriorate, they save an enormous amount of shelf-room, they are very portable, and they are most economical, since there is no waste attending their use. Pharmacists will find it pay them to stock and push Photographic "Tabloids."

**"SOLOIDS"**

Were introduced for the ready preparation of antiseptic solutions. With them solutions of a definite strength and character may be produced in a moment. The "Soloids" are of a characteristic shape and colour, so that there is no danger of errors occurring, as would be the case if the solutions were colourless. In midwifery, as well as in other surgical work, the convenience of a preparation which one is able to carry about without the least encumbrance, and the assurance of certainty of effect, render "Soloids" absolutely necessary to the busy practitioner.

"Soloids" Hydrarg. Perchlor. One in a pint of water makes a solution = 1 in 1,000. In bottles of 24 and 100.

"Soloids" of Iodic Hydrarg. One in a pint of water makes a solution = 1 in 1,000.

"Soloids" L.G.B. One in a pint of water makes a solution in accordance with the recommendation contained in the Local Board Memorandum of 1892.

We would point out in regard to the "Soloids" of Iodic Hydrarg. that the old strength (1 in 4,000) will be discontinued.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Cable and Telegraphic Address—"BURCOME, LONDON."



**"HAZELINE"**

Contains the volatile active principles obtained from the green twigs and leaves of *Hamamelis Virginica* by distillation, and may rightly be considered vastly more reliable than, and superior in effect to, any preparation made from the dried bark, which contains only extractive and colouring matters. "Hazeline" is water-like in appearance, with an aromatic pleasantly fragrant odour, and possesses a slightly astringent taste, as well as well-marked anodyne and antiseptic properties. Being absolutely colourless (unlike the ordinary Witch Hazel products), it does not stain linen or other fabric with which it may come into contact. While possessing strongly stryptic properties it is yet quite non-toxic, and may therefore be used for internal as well as for external bleeding.

**THE KEPLER SOLUTION OF COD-LIVER OIL IN MALT EXTRACT.**

The chemistry of Cod-Liver Oil has always had more than passing interest for pharmacists, and recent investigations bear very keenly upon the question of Emulsions of this drug. As a matter of fact, the emulsification of Cod-Liver Oil has in the majority of cases been carried out on the false assumption that its chemical constitution was analogous to that of other oils, whereas, as we have reason to believe from very recent reports, the main constituents are absolutely unique and are very easily decomposed. It is now admitted that the real value of Cod-Liver Oil as a food depends entirely upon the fatty acids (glycerides), and that these, to be of any real service, should be present unchanged. What, then, can be the value therapeutically of a preparation which has actually been saponified by an alkali? The delicate character of these acids is in itself the strongest possible argument against the use of the so-called alkaline emulsions, since it renders them open to rapid oxidation, and thus to become valueless as contributing material to maintain the balance in these cases of abnormal tissue waste. That these nutritive bodies are kept intact in the Kepler Solution is proved by the fact that it is, in the eyes of the medical profession, a food nutrient of the highest value. Supplied in two sizes at 20s. and 36s. per dozen respectively.

**INSUFFLATIO MENTHOLATIS COMP. (B., W. & Co.).**

The formula for this includes Menthol, Ammon-Chloride, Cocaine, Camphor, with a harmless organic diluent. The frequency with which this preparation now appears on prescriptions proves how effective it is as a means of applying menthol to the nasal mucous surfaces, &c. It never clogs the nares, nor does the powder itself, having been prepared by a special process, become lumpy or gritty. It may be well to state here, in view of many recent enquiries from pharmacists, that we put up but one size (in metal boxes), which is sold to the trade at 8s. per dozen boxes.

**ANTI-DIPHTHERITIC-SERUM EXSICCATUM (B., W. & Co.).**

We have much pleasure in announcing that we are the first to successfully produce a dried Anti-Diphtheritic-Serum of full potency, giving the following advantages: 1. A perfect guarantee as to its keeping properties. 2. It is perfectly sterile and much more convenient for use. 3. It dissolves readily in cold water, which should have been recently boiled and sterilised. 4. The contents of each tube equal 10 c.c.'s of normal serum; it should be dissolved in 5 c.c.'s of water boiled and cooled immediately before use. This will be found sufficient for one dose.

This, like the fluid Serum, is prepared under the direct personal supervision of a well-known London bacteriologist, in strict accordance with the latest developments, ensuring the most powerful immunising serum, so that both for potency and freedom from septic influences the new product is beyond question. Each tube contains one gramme, and is supplied at 1s. each.

**BEEF AND IRON WINE AS A NUTRIENT.**

In this preparation are contained the stimulant properties of beef together with a readily-absorbed salt of iron. Its value as a tonic-nutrient and stimulant cannot be over-

estimated, and in this character it has been largely prescribed of late during convalescence after influenza. The combination of beef constituents with a ferrous salt seems in the debilitated conditions mentioned to have an extraordinary roborant effect in cases wherein nutrition has failed or been disturbed. Each tablespoonful contains the essence of an ounce of beef with two grains of citrate of iron dissolved in good sound sherry, which has been specially treated. It may be mentioned that the retailing of this preparation does not incur a wine license.

**VEREKER IMPROVED CHLORIDE OF AMMONIUM INHALER.**

The chief advantages afforded by this Inhaler are that it is easy to put into working order, that the fumes are neutral, extremely simple to use, is easily taken apart and recharged, and once charged can be used many times without any further trouble; may be used in combination with any oxygenising body, such as Pinol, Eucalyptia, or Terebene. The fumes it yields cause no irritation and exert a truly wonderful action upon congested mucous membrane and thick tenacious secretions. They reach the remotest part of the respiratory mucous surfaces, and are absolutely harmless. Supplied to the Trade at 5s. each.

**PINOL.**

Pinol is the pure essence, or volatile oil, distilled from the needles of the *Pinus Pumilio*, growing amid the perpetual snow which covers the peaks of the Alps. It is distinguished from the common pine oils by superior medicinal and sanitary properties, and by its exquisitely delicate fragrance. The drug is largely employed in affections of the respiratory tract, including nasal catarrh, pharyngitis, quinsy, aphonia, asthma, pertussis, chronic bronchitis, and phthisis. For purposes of inhalation, Pinol may be used effectively by means of the "Pinol-Eucalyptia" Dry Inhaler.

**"PINOL-EUCALYPTIA" DRY INHALER**

Consists of a glass tube something like a cigar in shape, filled with absorbent pine-wood chips. One end of the tube forms a glass mouth-piece, and at the other end is a piece of wire gauze. The Pinol is dropped into the wide end of the tube until the absorbent chips are saturated, and the Inhaler is then ready for use. By taking deep inspirations, the air drawn through the Inhaler is fully charged with the vapour of the Pinol. This mode of inhalation possesses special advantages over steam inhalations:—1. The Inhaler may be used at any time without danger of catching cold. 2. It is extremely portable, and may be conveniently carried in the vest pocket ready for immediate use. Each box, in addition to the Inhaler, is supplied with specimen phials of both Pinol and Eucalyptia.

**ZYMINISED NUTRIENT SUPPOSITORIES.**

The increase of knowledge and skill in medicine and therapeutics is in nothing more conspicuously exemplified than in the now perfected method of feeding *per rectum*. That the rectum has great powers of absorption is generally known, but the difficulty for many years was the administration of foods in an easily assimilable form, which at the same time would not cause rectal intolerance.

It is manifest that the assimilation of a food must be easiest when such food is *digested beforehand*. The Zymised Suppositories contain only peptonised concentrated meat or milk and digested oil, and it has been amply demonstrated that Zymised Suppositories may be successfully employed to sustain life whenever feeding the stomach is impossible or undesirable. In fevers, consumption, œsophageal, gastric, and intestinal diseases, peritonitis, after surgical operations, in "typhoid states" of disease, and in all wasting affections of children and infants, they will sustain life for months. They are retained without difficulty, and will be found of desirable consistence and perfect preservability.

**Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.**

Cable and Telegraphic Address—"BURCOME, LONDON."



# “Tabloids” of Compressed Drugs.

TRADE MARK. (Burroughs, Wellcome & Co.)

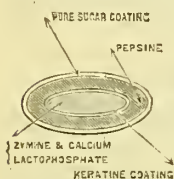
## PEPTONIC “TABLOIDS”

(Gastro-Enteric Digestive.)

MANY efforts have been made in the past to provide for deficiencies in the secretion of the digestive ferments, and the reason why these efforts have been more or less failures is not far to seek. There are some patients who suffer from deficiencies in the gastric secretion, others are troubled with intestinal indigestion, but the majority of sufferers are afflicted with both at the same time. It is now possible to supply both the gastric and pancreatic ferments, but if these come into contact they display a mutually destructive action and are rendered absolutely inert. It is, therefore, manifest that to be efficacious the ferments must be administered in such a manner that each is enabled to act in that part of the alimentary canal in which it can provide for the deficiencies of

nature. Pepsin must supply the want of the gastric juice in the stomach, whilst the pancreatic ferment (“Zymine”) must pass through the pylorus to provide for the lack of the secretions of the intestines.

Peptonic “Tabloids” enable this to be done. Each “Tabloid” consists of (1) an inner kernel containing Calcium Lactophosphate and “Zymine” (Pancreatic Extract) coated with keratin, and (2) pure Pepsin laid over the keratin coating; the whole is covered with pure white sugar. When the “Tabloid” enters the stomach the sugar coating dissolves and the Pepsin peels off; the keratin-protected kernel passes into the intestines unaffected, and is then dissolved to assist in the pancreatic digestive function. Supplied to the Trade in bottles of 25 and 100 at 8s. 6d. and 32s. per dozen.



### LIST OF “TABLOIDS” OF COMPRESSED DRUGS.

Corrected up to April 20th, 1895.

\* Those marked thus may be had beautifully coated with pure white sugar.  
† Those marked thus may be had sugar- or keratin-coated.

Aconite Tinct., 1 and 5 min.  
Agathin, 4 gr.  
Aloin, 1-10 gr.  
\*Aloin Compound.  
Alumnol, 4 gr.  
Ammon. Bromide, 5 and 10 gr.  
Ammon. Carb., 5 gr.  
Ammon. Chloride, 3, 5, and 10 gr.  
Ammon. Chloride with Borax.

Antacid (Magnesio-Calcio).  
Antifebrin, 2 gr.  
Antim. Tartrate, 1-50 gr.  
\*Antipyrin, 2½ gr.  
Antipyrin, 5 gr.  
Apomorphine Mur., 1-50 gr.  
Arsenious Acid, 1-100, 1-50, and 1-20 gr.  
Atropine Sulph., 1-100 gr.

Belladonna Tinct., 1, 5, and 15 min.  
Benzosol, 5 gr.  
Bismuth and Soda, 2½ gr. each.  
Bismuth Salicylate, 5 gr.  
Bismuth Subnitrate, 5 and 10 gr.  
\*Bland's Pill, 4 gr.  
\*Bland's Pill c. Aloin, 1-20 gr.  
\*Bland's Pill c. Arsenic, 1-64 gr.  
\*Bland's Pill Co.  
Blue Pill, 3 gr.  
Borax, 5 gr.  
Caffeine Citrate, 2 gr.  
\*Calcium Sulph., 1-10 gr.  
Calomel, 1-10, 1-2, and 1 gr.  
Camphor Comp. Tinct., 2, 5, & 15 min.  
Cannabis Indica Tinct., 5 min.  
Capsicum Tinct., 1 min.  
\*Cascara Sagrada Ext., 2 gr.  
\*Cascara Comp.  
\*Cathartic Comp., U.S.P.  
Cerebriuin, 5 gr.  
Charcoal, 5 gr.  
Chloralamid, 5 gr.  
Chloral Hydrate, 5 and 10 gr.  
Cinch. Tr., 30 min.  
Cinch. Co. Tr., 30 min.  
Cocaine Mur., 1 gr.  
Cocaine with Potash and Borax.  
Copper Arsenite, 1-1000 gr.  
Cretæ Aromat. cum Opio Pulv., 5 gr.  
Cubeb and Belladonna Efferves.  
Cubeb Comp.  
Dermatol, 5 gr.  
Dialysed Iron, 10 min.  
Dilymin, 5 gr.  
Digitalis Tinct., 1 and 5 min.  
Digitalin, 1-100 gr.  
Diuretin-“Knoll,” 5 gr.  
Dover Powder, 1-4 and 5 gr.  
\*Easton's Syrup, 1 dr.  
Ergotin, 3 gr.  
Eucalyptol Phosphate, 1 gr.  
Euonymin Resin, 1-8 gr.  
Exalgin, 2 gr.  
Ferri Sulph. Exsic., 3 gr.  
Gelsem. Semp. Tr., 5 min.  
Gold Bromide, 1-100 gr.  
Guaiacol Carbonate, 5 gr.  
Guaiacum and Sulphur, aa 3 gr.  
Hydrarg., Colocynth., c. Hyoscyamus.  
Hydrarg. cum Cretâ, 1-3, 1-2, & 1 gr.  
Hydrarg. cum Cretâ, 1 gr., with Pulv. Ipecac. Co., 1 gr.  
Hydrarg. Iod. Rub., 1-16 gr.  
Hydrarg. Iod. Vir., 1-8 gr.  
Hydrarg. Perchlor., 1-100 gr.  
Hydrarg. Subchlor., 1-10, 1-2, & 1 gr.  
\*Hydrastia Comp.  
Hydronaphthol, 3 gr.  
Hyoscyam. Tr., 1 and 10 min.  
Hypnal, 5 gr.  
†Ichthyol, 2½ gr.  
Ichthyol Co.  
Ichthyol Pyoktain Co.  
Iodic Hydrarg., 1-6 gr.  
Iodopyrin, 5 gr.  
Ipecac. and Opium, 1-4 and 5 gr.  
Ipecac. and Squill, 5 gr.  
Ipecac. Powder, 1-10 and 5 gr.  
Ipecac. Pulv. cum Antim. Tart., aa 1-100 gr.  
Ipecac. Vin., 5 min.  
\*Iron and Arsenic Comp.  
\*Iron and Quinine Cit., 3 gr.  
\*Laxative Vegetable.  
Lead and Opium, 4 gr.  
Lithia Carbonate, 2 gr.  
\*Lithia Co. (Mr. Hugh Lane).  
Magnes. Carb. Comp. (Antacid).  
Magnesium Sulphite, 5 gr.  
Manganese Dioxide, 2 gr.  
Medulla, 1½ gr.

Menthol Comp.  
Morphine Sulph., 1-20 and 1-8 gr.  
Nasal (Dr. Carl Sailer).  
Nasal (Dr. H. Tilley).  
Nasal, Alkaline.  
Nasal, Antiseptic and Alkaline.  
Naso-pharyngeal (Dr. Macnaughton Jones).  
Nitro-glycerine, 1-100 gr.  
Nux Vomica Tinct., 1, 3, and 10 mi.  
Opium Tinct., 2, 5, and 10 min.  
Opium 1-2 and 1 gr.  
Ovarium Tissue, 5 gr.  
\*Pancreatin. (“Zymine.”)  
Papain, 2 gr. (Dr. Finkler & Co.).  
\*Pepsin (Fairchild).  
Pepsin, Bismuth, and Charcoal.  
Pepsin, Saccharated (Wyeth), 5 gr.  
\*Peptonic, 3 gr.  
\*Peptonic (new process).  
Phenacetin (Bayer), 5 gr.  
Pilocarpin Mur., 1-20 gr.  
Pituitary Body, 2 gr.  
Podophyllin Resin, 1-4 gr.  
Podophyllin Co. (Sir William Moore).  
Potash-Mint.  
Potass. Bicarb., 5 gr.  
Potass. Bichromate, 1-10 gr.  
Potass. Bromide, 5 and 10 gr.  
Potass. Chlorate, 5 gr.  
Potass. Chlorate with Borax.  
Potass. Iodide, 5 gr.  
Potass. Nit., 5 gr.  
Potass. Permanganate, 1 and 2 gr.  
Potass. Salicylate, 5 gr.  
Quinine Bisulphate, 1-2 gr.  
\*Quinine Bisulph., 1, 2, 3, and 5 gr.  
Quinine Sulphate, 1, 2, 3, and 5 gr.  
Reduced Iron, 2 gr.  
Resorcin, 3 gr.  
Rhubarb Comp. Pil., 3 gr.  
Rhubarb Comp. Pulv. (Gregory Powder), 5 gr.  
Rhubarb and Gentian (Stomachic Comp.).  
Rhubarb and Soda, 5 gr.  
Rhubarb, 3 gr.  
Saccharin, 1-2 gr.  
Salicin, 5 gr.  
Salol, 5 gr.  
Santonin, 1-2 gr.  
Sodium Bicarbonate, 5 gr.  
Sodium Bromide, 5 and 10 gr.  
Sodium Dithio-salicylate, 4 gr.  
Soda-Mint.  
Sodium Salicylate, 3 and 5 gr.  
Spleen Substance, 4 gr.  
Strontium Bromid., 5 gr.  
Strophanthus Tr., 2 min.  
Sulphonal, 5 gr.  
Sulphur Comp. (Sir A. Garrod).  
Tannin, 2½ gr.  
Tar, 1 gr.  
Tar with Codeine.  
Test “Tabloids” (for preparing Thirst. [Fehling's Solution]).  
Thymus Gland, 5 gr.  
Thyroid Gland, 1½ and 5 gr.  
\*Tonic Comp.  
Trinitrine (Nitro-glycerine), 1-100 and 1-50 gr.  
Trinitrine and Amyl Nitrite.  
Trinitrine Comp.  
Urethane, 5 gr.  
Voice (Potash, Borax, and Cocaine).  
Warburg Tincture, 30 min.  
Zinc Permanganate, 1-8 gr.  
Zinc Sulphate, 1 and 10 gr.  
Zinc Sulpho-carbolate, 2 gr.  
Zingib. Fort. Tinct., 5 min.  
†“Zymine” (Fairchild).  
†“Zymine” Comp. (Fairchild).

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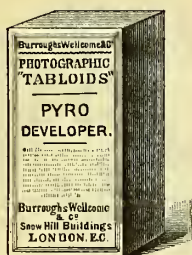
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**PHOTOGRAPHIC "TABLOIDS."**

What crowds of amateur photographers one meets nowadays! A few of these are accomplished, but the majority turn out very indifferent work indeed. The difficulty in Photography is not the actual taking of the photo—that is simplicity itself—but the subsequent processes are what need the skill and experience. And the amateur is very greatly hampered by the uncertainty and unreliability of his developing and toning solutions—certainly the most frequent causes of failure and disappointment.

But there is a Balm in Gilead. Photographic "Tabloids" have been invented, and the woes of amateurs have straightway ceased. With "Tabloids" solutions can be prepared with the least possible trouble at the time of using, and, greatest boon of all, no weighing or measuring is required. As a thimble is to a cocoa-nut, so is the size of a bottle of Photographic "Tabloids" to that of a stock solution. What a saving of space is this! Amateur photographers now replace their bulky, cumbrous, and unsatisfactory solutions by "Tabloids," and thus enormously increase their chances of success. Hence these "Tabloids" (list appended) have become well worth the attention of those who do not already keep them.

Developer "Tabloids"  
Eikonogen  
Eikonogen with Quinol  
Paromidophenol  
Pyro Developer

Pyrogallie Acid, 1, 2, & 4 gr.  
Pyrogallie Acid with Eikonogen  
Quinol  
Quinol with Pyro  
Accelerator "Tabloids"

Restrainer "Tabloids"  
Pot. Brom 1 gr.  
Ammon. Brom. 1 gr.  
Toning "Tabloids"  
Gold Compound



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Wallflower

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Bottles,

and

1 and 2 ounce Bottles,

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## AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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## POSTCARD COMPETITION.

## APRIL.

FOR fourteen vacancies on the Pharmaceutical Council eighteen gentlemen have accepted nomination, viz.:—

Allen, C. B., London	Harrison, J., Sunderland
Atkins, S. R., Salisbury	Hills, W., London
*Bateson, T., Kendal	Martindale, W., London
Bottle, A., Dover	Newsholme, G. T. W., Sheffield
*Campkin, A. S., Cambridge	Richardson, J. G. F., Leicester
Carteighe, M., London	*Savory, A. L., London
*Corder, O., Norwich	Southall, A., Birmingham
Grose, N. M., Swansea	Young, J. R., Warrington
Hampson, R., Sevenoaks	*Wills, G. S. V., London

Those marked \* are not at present members of the Council.

We ask subscribers, their employés, or members of their families to arrange these names as they think they will appear when the poll is declared. We shall give at least one guinea as a prize to the person who places the names correctly, or, if no one places the whole eighteen, then to the card which gives the nearest number to that, or we may divide the prize in case of equality. Postcards will be received up to April 30.

## Summary.

NOTE that the trade report is not in its usual place this week, but begins on p. 566.

A BATCH of hair-raising conundrums fills p. 568.

SOME good formulæ for specialities are given on p. 563.

A NUMBER of new things which are worthy of trade attention are described on page 569.

DYSPEPSIA is again the trouble treated by thirty-two prescriptions for counter-practice (p. 565).

MR. COAKER, of Jagersfontein, facetiously sketches a visit which he has paid to a Basuto Chief (p. 577).

A BATCH of fatalities again focusses attention upon the necessity for scheduling carbolic acid (p. 541).

THE uses of mechanical power in the laboratory and engravings of the apparatus are described on p. 567.

WE publish the results of our colonial and foreign diary competition (p. 549), and comment upon its peculiarities (p. 554).

THE present condition of the drug-trade in Newfoundland, consequent upon the financial disaster, is sketched on pp. 548-9.

WE print an abstract of suggestions for B.P. revision made by the Glasgow Pharmaceutical Association to the Medical Council (p. 574).

LIQUOR IODI has formed the subject of another prosecution at the North London Police Court. The evidence will be found amusing (p. 558).

MESSRS. FARR AND WRIGHT deal in the sixth pharmacopœia article with considerations bearing upon revision of tincture formulæ (p. 559).

SHEFFIELD chemists have discussed the altered conditions of the pharmaceutical examinations and the propriety of professorial examiners (p. 545).

UP to the present we have received only the results of the Edinburgh pharmaceutical examinations, the names of those who passed the Minor being on p. 544.

THE Chemists' Association of Plymouth and its district have retained Professor Atfield, as analyst, and a firm of solicitors to defend them in case of trouble (p. 541.)

THE registration of three new companies to carry on retail chemist and druggist businesses, and the winding-up of one drug company, and of several others of drug interest, are reported (p. 575).

THE wills of the late Mr. S. M. Burroughs, Mr. James Atkinson, the perfumer, and other six gentlemen connected with the trade have been proved, the net value of the eight estates being 236,710*l.* (p. 547).

WE print the reply which Dr. B. H. Paul submitted to the Pharmaceutical Council converting the Research Committee's special report in regard to Professor Dunstan and the aconitine research (pp. 563-4).

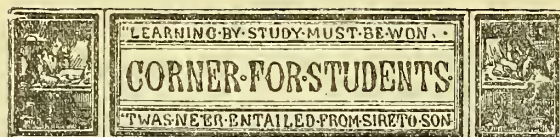
THE advance in the price of petroleum oil in consequence of the operations of the Standard Oil Company is the principal commercial feature this week. In connection with it we print on p. 554 an article on American Trusts.

THE completion of peace between China and Japan, and the consequent opening-up of new ports and transfer of the camphor-growing island of Formosa, is the occasion for our pointing out how English commerce will be affected thereby (p. 557).

WE report a conference on early closing at Cardiff and of the meeting of Plymouth chemists at which Sir John Lubbock's Bill was supported (pp. 540-1). We invite trade opinion upon the measure (p. 574), and comment upon its provisions (p. 552).

THE markets have scarcely recovered from the Easter vacation, but upon the whole business is in a fairly good condition. There have been declines in the value of morphia alkaloids and of cocaine. All Chinese and Japanese goods are firmly held, and some are advancing (p. 566).





CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.C.

#### QUALITATIVE ANALYSIS.

**A** MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salt (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Wednesday, April 24, and the samples will be forwarded immediately.

Students' reports will be received up to Saturday, May 4. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

#### REPORTS.

The subject of the last exercise was a mixture of 2 parts of magnesium carbonate, 1 part of ammonio-ferrous sulphate, and 1 part of calcium phosphate. Its calculated composition was:—

Fe	..	..	..	..	..	3.57
Ca	..	..	..	..	..	9.68
Mg	..	..	..	..	..	12.57
NH <sub>4</sub>	..	..	..	..	..	2.29
SO <sub>4</sub>	..	..	..	..	..	12.25
PO <sub>4</sub>	..	..	..	..	..	15.32
CO <sub>2</sub>	..	..	..	..	..	23.56
O	..	..	..	..	..	2.09
H <sub>2</sub> O	..	..	..	..	..	18.67
						100.00

The only impurity of any note was a trace of chlorine. Samples of the powder were sent to 102 applicants, and 57 reports of analyses were received. The failures in the detection of the several constituents were as follow:—Calcium 27, ammonium 16, magnesium 12, iron 4, sulphuric radicle 8, phosphoric 7, carbonic 3.

This exercise was given with the intention of finding out whether our correspondents had benefited by the advice given in our issue of March 16, and it is satisfactory to find that many who had previously failed to detect calcium when present in the form of phosphate were successful in the present case. Last month nearly 70 per cent. of the reports received were wrong as regards calcium; this month the error occurs in only 47 per cent. of the reports, though the quantity of calcium to be detected was considerably less in the latter case. The improvement is most marked.

The failures in the detection of ammonium were due chiefly to the employment of rough tests unsuited for accurate work. Ammonium, owing to its low molecular weight, occurs in relatively small quantities. Ammonium alum, for example, contains rather less than 4 per cent. of ammonium. So that, supposing that salt to constitute one quarter of a mixture of salts, the quantity of ammonium present in the mixture would be less than 1 per cent. A test that will not detect such a quantity with certainty is of little practical use.

The precipitation of magnesium in the form of ammonio-magnesium phosphate requires time; in dilute solutions, and in the presence of ammonium salts the precipitate separates very slowly. Some of our correspondents did not take this fact sufficiently into account.

#### PRIZES.

The First Prize for the best analysis has been awarded to W. G. STRATTON, care of Mr. E. H. Farr, Uckfield, Sussex.

The Second Prize has been awarded to JAMES HAMERTON, care of Messrs. Heanley & Saunders, Peterborough.

#### MARKS AWARDED FOR ANALYSES.

W. G. Stratton (1st prize)	..	100	001 ..	..	..	..	77
James Hamerton (2nd prize)	..	98	Upland	..	..	..	77
Progreidens	..	96	Phyllotaxis	..	..	..	76
T. Cook	..	95	R. R.	..	..	..	75
Harold Read	..	94	Noban	..	..	..	73
H. C. Goodall	..	93	Demosthenes	..	..	..	72
Helium	..	92	Alchemy	..	..	..	70
E. G. Robinson	..	91	Ruhruf	..	..	..	..
R. T. S.	..	90	R. I. P.	..	..	..	68
H. S.	..	90	Digitalis	..	..	..	67
Walton Porter	..	90	S. R.	..	..	..	66
James S. Prior	..	90	Borrett	..	..	..	66
Nemo	..	89	Lamel	..	..	..	65
A. W. Latham	..	88	D. W. C.	..	..	..	63
H. Burus	..	88	Protoxalas	..	..	..	62
C. V. Bach	..	87	A. B.	..	..	..	62
Chromium	..	87	Couo	..	..	..	61
Hopeful	..	86	Influenza	..	..	..	60
Narcissus	..	86	C. M. H.	..	..	..	50
H. F.	..	86	Glaserite	..	..	..	45
Ireland	..	85	Nitrate	..	..	..	40
Vindex	..	85	Festina Lente	..	..	..	35
Hopeful Scenndus	..	84	Victory	..	..	..	33
Erica	..	83	Stow	..	..	..	32
K. C. N. S.	..	83	G. R. Field	..	..	..	30
J. Chalmers	..	82	AmCl	..	..	..	30
J. F. S.	..	81	Saponis	..	..	..	20
R. A. W.	..	80	Dewsburian	..	..	..	15
Patience	..	78					

#### TO CORRESPONDENTS.

**Prizes.**—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

**Note.**—All communications should include the names and addresses of the writers.

**H. READ.**—The fact that the powder did not effervesce with an acid after ignition did not prove the absence of an oxalate. The temperature employed may be high enough to decompose the carbonate, as it was in your case: you decomposed the carbonate originally present.

**J. S. PRIOR.**—You should have obtained a much stronger reaction for ammonium; you employed a very rough test.

**NEMO.**—It is probable that the greater part of the calcium was thrown down with the phosphates, a sufficient quantity of free acetic acid not being present. The powder was originally faintly green; the pink colour was the result of partial oxidation of the iron salt.

**A. W. LATHAM.**—The flame-coloration (when the powder was moistened with hydrochloric acid) was too red for sodium.

**H. BURNS.**—You ought to have obtained a more satisfactory result with ammonium molybdate: it gives a very complete separation of the phosphoric radicle, but a large quantity of the reagent must be used. Separation in the form of ferric phosphate answers very well for qualitative purposes. There must be no free acid present, except acetic acid, of which there must be a sufficiency, and you must be careful to use enough ferric chloride. The precautions to be observed can only be learnt by practice.

**C. V. BACH.**—You did not succeed in separating the phosphoric radicle as ferric phosphate; probably you did not use enough ferric chloride. The solution must be boiled, not merely warmed.

**CHROMIUM.**—The calcium being present in the form of phosphate was precipitated along with the iron when you made the solution of the powder alkaline. A special method should have been employed to detect calcium under these circumstances.

**HOPEFUL.**—You should have observed the flame-coloration: it was a



instinct reddish yellow when the powder on the platinum wire was moistened with hydrochloric acid.

NARCISSUS.—See remarks to "Hopeful."

IRELAND.—Because you failed to obtain a white, blue, green, or flesh-coloured precipitate with ammonium sulphide you inferred that aluminium, chromium, and manganese were absent. You do not say how you found out that none of these colours was mixed with the black precipitate which you did obtain.

VINDEX.—You assumed there was enough iron in the powder to precipitate all the phosphoric acid, whereas only about one-third of the required quantity was present. This you could have ascertained by adding ferric chloride to the filtrate from the ferric phosphate and boiling again, when a further precipitate would have been produced.

HOPEFUL SECUNDUS.—When you detect ammonium by such a rough test you may be sure that more than a trace is present.

ERICA.—Your test for ammonium must have been very carelessly applied.

K. C. N. S.—You forgot to look for ammonium.

JOHN CHALMERS.—See remarks to "K. C. N. S."

J. F. S.—The filtrate from ammonium chloride and hydrate contained magnesium. You examined it for potassium and sodium only.

R. A. W.—Magnesium was the chief metallic constituent of the mixture; it was easily detected.

001.—If you carried out the method you describe with moderate care, there could not have been more than a trace of calcium in the precipitate produced by sodium phosphate.

PHYLLOTAXIS.—You omitted to give a list of the constituents detected.

R. P.—Your evidence of the presence of manganese and cobalt was too indefinite. Unless more precise results can be obtained, it is safer to suspend one's judgment.

ROHAN.—More care should be bestowed upon the preparation of your report. It would be more intelligible if you would rule off a column to the left for each precipitate you examine, and a larger one to the right for the filtrate, subdividing these columns in the same way when necessary.

DEMOSTHENES.—There was a large quantity of phosphate in the mixture. You did not use an excess of ammonium molybdate.

ALCHEMY.—There was no metal present that could interfere with the detection of sulphuric acid. The boiling with sodium carbonate might have been dispensed with.

RUBRUF.—Parts of your report were not intelligible, owing to the carelessness in which it was drawn up.

R. I. P.—In testing for ammonium you seem to have heated the dry powder with dry soda lime. You should have used enough water to moisten the mixture, and omitted the heating.

DIGITALIS.—You observed no fumes of ammonia on heating the powder in a dry test-tube with calcium hydrate: a very likely result, but it is not the way to apply the test. A little of the powder mixed with calcium hydrate in a watch-glass was very slightly moistened, and then covered with another glass, having a piece of slightly-moistened red litmus-paper adhering to it; the litmus-paper instantly became blue.

S. R.—The iron should have been oxidised by boiling with nitric acid before you added ammonium chloride and hydrate. You seem to have merely added nitric acid without boiling.

BORRETT.—See remarks to "Demosthenes."

LAMEL.—You detected phosphoric acid, but you omitted it from your list of constituents. You made no regular examination for the acids.

D. W. C.—Phosphoric acid is not once mentioned in your report. It was the constituent of greatest analytical importance in this case.

PROTOXALAS.—You omitted to send your name and address; they should accompany every communication.

A. B.—The barium-chloride precipitate was not so unimportant as you thought.

INFLUENZA.—The molybdc test is the proper one to use for phosphoric acid.

C. M. H.—The gas so abundantly evolved constituted nearly one-quarter of the powder, and you should have given it more consideration. Perhaps there is no calcium hydrate in the liquid you used as lime-water.

GLASERITE.—Ignition with a cobalt salt does not, unfortunately, distinguish calcium phosphate from alumina: they both give blue masses. You should not have neglected the filtrate from ammonium chloride and hydrate, which contained the magnesium. There was not enough phosphoric acid present to precipitate magnesium as well as calcium.

VICTORY.—There was nothing in the powder that would impart a blue colour to a borax bead. You must have been mistaken in your observation.

STOW.—You found barium and a sulphate in a mixture of salts soluble in dilute acids. Such an unusual occurrence ought to have suggested further investigation.

G. R. FIELD.—Accurate results cannot be obtained without much more trouble and care than your report indicates.

AMCL.—You omitted to summarise your results. It is not very clear from your report what your results were; perhaps you were somewhat doubtful on this point yourself.

SAPONIS.—Try the effect of an acid upon a sulphite, and notice the marked difference in the smell of the gas evolved from that which you observed in this analysis.



## English News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

### Fee for Night Attendance.

Referring to our remarks on Liverpool price-list, Mr. Henry Ebbage, Park Street Pharmacy, Southend, states that he always charges 1s. attendance between 11 P.M. and 8 A.M., and customers admit it to be reasonable. This was also the custom in a Birmingham pharmacy where he was assistant a few years ago.

### S. M. Burroughs Memorial.

The Council of the Chemists' Assistants' Association have opened amongst the members a list for subscriptions to the S. M. Burroughs memorial, their intention being to hand over the whole sum received to the executive committee of the fund. Mr. H. H. Robins, 59 Capel Road, Forest Gate, E., is acting as secretary.

### The Strand Drug-contracts.

At a meeting of the Strand Board of Guardians on Tuesday, April 9, the clerk laid on the table a return as to the annual cost of drugs, medical-appliances, &c., required in the dispensary and infirmary. In the discussion which followed, Mr. William Dart, chemist and druggist, pointed out that by the system now pursued, and which had been adopted a decade of years ago on the proposition of a former member of the Board, the Guardians, instead of saving 60 per cent. on medicines by having them prepared by their own dispenser, were put to a considerably augmented outlay. When the various articles of the Pharmacopœia required by their medical staff were supplied direct from the retail chemist and druggist, the expenditure was comparatively small and moderate, and this notwithstanding the enormous decrease in the price of quinine, cocaine, and other drugs and chemicals within recent years. Mr. R. Walker defended the action of the Guardians in the past, and said the greater the expenditure on such drugs, &c., the more benefit the Board conferred on suffering humanity. He was a member of the Cleveland Street Asylum, and in that capacity, as a representative of the Board, he had frequent opportunities of witnessing the immense amount of good which was done to their sick poor by a liberal use of appropriate and strengthening medicines. Mr. James Willing, jun., reminded Mr. Walker that Mr. Dart, as a member of the profession and one long, honourably, and actively engaged in the trade with which the subject of their discussion was more immediately concerned, ought to know more about the question than he (Mr. Walker), who might be a very good architect but a somewhat indifferent apothecary. (A laugh.) In the result of the discussion, it was agreed that the return should be received and adopted.

### Fatally Burnt in an Alum-vat.

While Mons. J. R. Phulpin (32), manager of the Australian Alum-works, Runcorn, was, on Thursday, April 11, trying to fix a syphon to draw off the sulphate of alum, contained in a large vat, he fell into the vat, in which there was about 5 feet of liquid, at about 190° F. He was extricated as speedily as possible, and attended to by Dr. McDougall; but the scalding which he had received was terrible, and death relieved him from his sufferings on Good Friday morning.

### A Chemist Fined for Drunkenness.

Joseph Phillips, chemist, of Paddock Wood, was charged at the Tonbridge (Kent) Petty Sessions, on April 10, for being drunk on the highway at Paddock Wood, on March 28. The defendant did not appear, but was represented by Mr. Neve, jun., who stated that his client carried on business as



a chemist, but as he had not a qualified assistant, it was very inconvenient for him to get away. It appeared from the police evidence that on March 23, at 7 P.M., the defendant was in a drunken condition in the high road at Paddeock Wood, and his conduct was such that it caused a crowd of children to congregate. For the defence, Mr. Neve said his client had been to Maidstone on business, and unfortunately took a little more than was good for him. He was now very sorry for what had occurred. Since his client was last before the Court he had been almost a total abstainer. Superintendent Bartlett proved three previous convictions against the defendant—two for drunkenness and the other for refusing to quit a public-house. Finally, the Bench imposed a fine of 10s., and 18s. costs. Mr. Neve thanked the Bench for their lenient sentence, and said he would see that the money was paid.

#### A Window Smash.

Mr. T. P. Hayton, chemist and druggist, High Street, Wigton, had his large plate glass window and some of the fittings smashed last week by a restive horse walking into it. What makes the damage particularly annoying is that Mr. Hayton had just completed the entire renovation of his premises.

#### Chrome-lead Colours.

The Chemical Section of the Manchester Chamber of Commerce have condemned the use of chrome-lead colours as dyes for garments to be worn next the skin, and they recommend that other yellow dyes of a non-poisonous character should be used.

#### Sent to Hard Labour.

At the West Kent Quarter Sessions, before Lord Medway, on April 11, William Hellier, *alias* Henry Heath Hellier, of Lydd, was indicted on five counts, which alleged that he being an undischarged bankrupt did obtain credit to the extent of over 20l. from various firms, one being the Sanitas Company (Limited), London, without disclosing his position. Mr. Beaumont Morrice prosecuted on behalf of the Treasury, and Mr. Hohler defended. The prisoner pleaded guilty. The evidence as to the transactions with the Sanitas Company was as follows:—Mr. Charles William Harris, the secretary of the company, stated that he received several orders from the prisoner, and on September 21, 1891, the amount owing for goods was 26l. 13s. 6d. Previous to obtaining this credit the prisoner did not disclose to the company that he was an undischarged bankrupt. The company had received no payment for the goods. The goods were despatched by train and sent to Hawkhurst. Cross-examined, Mr. Harris said: It is my duty to keep the books, but I have nothing to do with sending out the goods. The receipts for goods are in my possession. My personal knowledge of the case is derived from the entries in the books. On May 6, 1891, the prisoner was supplied with goods of the value of 4l. 18s. 10d. That was the company's first dealing with the prisoner. I do not recollect whether we made any inquiries before sending the goods; we do so as a rule. Further goods were ordered and sent at different dates, making the total amount of debt on September 21, 1891, 26l. 13s. 6d. During the time we received the orders we made no inquiries as to the prisoner's business. The company is presided over by a board of directors with a chairman. I have received no notice from the prisoner that he was an undischarged bankrupt, nor has any of the directors so far as I know. It would be a most unlikely thing for any personal notice to be given to any member of the company, and I should say that was not done by the prisoner. The prisoner was not introduced to us by any tradesman and he gave us no references. We have not taken any civil proceedings against prisoner, but after supplying the goods we made inquiries which induced us not to do so, as we did not believe in risking more money in connection with the prisoner. Officials of Portsmouth and Brighton Bankruptcy Courts proved the prisoner was a bankrupt in March, 1885, and March, 1893, and had never obtained his discharge. Mr. Beaumont Morrice said the prisoner had been carrying on a series of frauds at Southsea, Lydd, and Hawkhurst for years, and his audacity had reached such a pitch that in the interest of the commercial community generally the Treasury felt compelled to put a stop to the prisoner's fraudulent conduct. Mr. Hohler pro-

tested against the imputation of fraud. Lord Medway said the prisoner had pleaded guilty to an offence which was equally an offence whether there was intent to defraud or not. Mr. Hohler said that was certainly so; but if he had known his learned friend was going to impute fraud he would have advised the prisoner to plead not guilty. The prisoner thought he was able to order goods so long as he did not exceed 20l. in one order, and besides that the prisoner's orders were in no case a request for credit. Lord Medway said he felt that he could not do less than sentence prisoner to twelve months' hard labour. The prisoner had for years been carrying on a course of fraud, obtaining every class of goods he could, and selling them for what he could and how he could with evidently no purpose or prospect of paying for them.

#### Foreign Prison-made Goods.

The Board of Trade have appointed a Departmental Committee to inquire into the extent to which goods made in foreign prisons are imported into this country, and to report whether any, and, if so, what, steps can be taken effectually to restrict the importation of such goods. The Committee consists of the Right Hon. Lord Thring, K.C.B., Colonel the Hon. F. C. Bridgeman, M.P., Mr. H. J. Roby, M.P., Mr. E. J. Ruggles-Brise, Mr. Horace A. D. Seymour, and Mr. H. Llewellyn Smith. Mr. J. G. Willis, of the Board of Trade, will act as Secretary.

#### Glass-bottle Trade.

As an indication of better times in the glass-bottle trade, it is reported that thirty-two holes at the Dan Rylands Hope Glassworks, Stairfoot, have been reopened, and 160 hands, who have been out of work for upwards of twenty-nine weeks, are thus given work again.

#### Tramps and Vaccination.

The anti-vaccinationists are rather strongly represented on the Eastbourne Board of Guardians. One of them at the meeting last week (Mr. Luck) proposed "That the professional tramp, who is an intolerable nuisance, and the public vaccinator, who is an impostor and obtains money under false pretences, be sent to the colonies." For this a proposal was afterwards substituted, advocating that the distribution by the Board of a certain pamphlet on vaccination, drawn up by the Eastbourne Medical Society, should be discontinued. Six members voted for this instruction and twelve against it.

#### Conference on Early Closing.

The fourth annual conference of the National Union of Shop-assistants was held at Cardiff on Easter Sunday and Monday, under the presidency of Mr. T. Spencer Jones, of Cardiff. Delegates were present from London, Manchester, and sixteen other towns. The President referred to the history of the early-closing movement, observing that though during the last fifty years 10,000l. had been spent, it was stated, on behalf of the shop-assistants, yet in the matter of early closing, they were as badly off to-day as they were twenty-five years ago. He argued that two great causes of their failure had been neglect of appeals to the working classes and the want of proper organisation. Evidence had been given before a Select Committee of the House of Commons that shop-assistants worked on an average something like eighty-five hours per week. Unfortunately, that was not the only grievance from which they suffered. In the question of wages many shop-assistants did not earn anything like the proverbial "dockers' tanner."

Mr. J. Macpherson, the General Secretary, read the annual report, which stated that during the year the membership had increased considerably, over 1,100 members having joined. The total income was 1,327l. 1s. 8d., being an increase of over 500l. on 1893. The balance to the credit of the Union was now 400l. They had paid to members out of employment, and for illness and other purposes, 211l. 7s. 9d. The branches forming the Manchester district had made a movement in the direction of publishing a list of fair shops. This had met with considerable success, many employers readily agreeing to the conditions laid down, and some even asking to be placed on the list. It was decided to hold the next annual conference at Liverpool.



The Secretary stated that Mr. Provand, M.P., had withdrawn his Shop-hours Act, 1892, Amendment Bill, believing that thereby Sir John Lubbock's Bill would have a better chance of becoming law. The President regretted this action, as the Bill proposed to limit the hours of labour of persons under 18 years of age to sixty per week instead of seventy-four, as at present. He thought it was a reflection on our legislators to allow themselves to be beaten by a new country like New Zealand, where it was illegal to employ a young person under 18 years of age more than fifty-two hours per week.

An open conference, to which representatives of all trade organisations in South Wales were admitted, was afterwards held, at which certain amendments to Sir John Lubbock's Bill were proposed. One was that it be made imperative on local authorities, when a majority of two-thirds decided in favour of certain fixed hours of closing, to issue an order giving effect to that decision, and not to allow them any discretionary power. Another amendment proposed was that it should require two-thirds, and not one-third, majority to repeal the Act when it had once been adopted in a town. A third amendment was that it should be unlawful to employ any assistant more than half an hour after the time for closing except by special permission of the local authority. The latter gave rise to considerable discussion, representatives attending from the Cardiff Grocers' Association to oppose it. They declared that if this amendment were inserted, the Bill would become a dead letter, for no tradesman would ever vote for its adoption with a clause like that attached. Eventually, however, all three amendments were carried.

#### Plymouth Chemists in favour of the Early-closing Bill.

At a quarterly meeting of the Three Towns and District Chemists' Association held at Plymouth on April 10, Mr. C. J. Park, the President, in the chair, a long discussion took place on Sir John Lubbock's Early-closing Bill, and finally a vote was recorded, by a large majority, in favour of steps being taken to get a clause inserted making early closing compulsory for chemists, but providing for an emergency clause to enable urgent prescriptions being dispensed at the side-door. It was thought that often the general public applied after business hours to the chemist for many things that could easily be obtained during the day, and a hope was expressed that late trading should be abolished. [It seems as if the Plymouth chemists had before them the first draft of the Bill of 1896. Chemists are not excluded from the Bill, and a provision enabling them to supply medicines, &c, after hours is included.—Ed. C. & D.]

#### Prepared for Trouble.

At the same meeting of the Three Towns Chemists' Association, Professor Atfield was retained as analyst on behalf of members of the Association, and Messrs. Rundle and Martin, of Devonport, as solicitors to defend any members who may be prosecuted.

#### A Liking for Chlorodyne.

Albert Tullidge (49), draper, and Patience Tullidge (58) appeared on bail at the Plymouth Police Court on April 11 charged with obtaining, by false pretences, from Mr. J. Maurice, chemist, a bottle of chlorodyne, value 2s. 9d., on February 3. Accused pleaded guilty. Mr. St. Aubyn, who appeared for the prisoners, said this was a very sad case. The accused were brother and sister, and up to the present time had borne an irreproachable character. Both were in the habit of taking chlorodyne, and that led them to commit the act with which they were charged. Mr. Symons, for the prosecution, said prosecutor did not wish to press the charge. The Chief Constable, in reply to the Recorder, said accused were old residents. The male prisoner once kept a shop, and was looked upon as a highly respectable man. Mr. Wolferstan, surgeon, replying to the Recorder, said it was as rare to give up the morphia craving as the alcohol craving. The Recorder said if nothing else would show them the necessity of fighting against this habit it was their present position. Upon the understanding that they would be looked after by their relatives, accused were liberated on their own recognisances of 25l.

#### Contracts.

Messrs. Burgoyne, Burbidges & Co., Coleman Street, E.C. have obtained the contract for drugs, and Messrs. S. Maw, Son & Thompson that for sundries (10 per cent. off list-prices), for St. Matthew, Bethnal Green, Board of Guardians.

#### Carbolic-acid Poisonings.

Poisoning with carbolic acid was epidemic in the Liverpool district last week. A child of 3, living at Bootle, picked up a bottle of the acid on a staircase, and drank some of it. Our last report was that the child was in a hopeless condition. At Birkenhead, William Speering (58), a horsekeeper, got 2 oz. of the acid for 3d., from Mr. Snow's chemist's shop in Price Street, and going across the road, swallowed it. The assistant, noticing him, followed with an emetic, but Speering died in the Borough Hospital. Barbara Owen (38), the wife of a Bootle stoker, who had been suffering from head-pains lately, drank a mixture of naphtha and carbolic acid, which her husband kept in the house. She also died in the same hospital.

George White (50), superintendent at the Preston Cattle-market, had been feeling his head queer, and last week he helped himself to a drink from a cask of carbolic acid kept in the slaughter-house. He never regained consciousness.

On Good Friday morning, Henry Gibson (41) was found lying dead in a shed at 59 Elm Grove, Rye Lane. His face was black, and there was a gallon tin of carbolic acid beside him. Evidence at the inquest showed that Gibson had been depressed in consequence of his master's death, and his own death was due to syncope following carbolic-acid poisoning.

An inquest was held at Kidderminster on Saturday regarding the death of Wm. Sidney Moore (70), a weaver, who, two days before, had been found in his bedroom in a dying state. He left a letter addressed to the Coroner stating that he ended his life deliberately by carbolic acid as he could no longer live as a pauper.

Emily Stringe, a widow, residing in Pimlico, went to a chemist for an ounce of carbolic acid, saying it was for a lotion. She looked haggard and strange; nevertheless, she got the acid and swallowed it shortly after. She was found dead in bed next morning (April 11).

The dead body of a poor gentleman was found in Hyde Park on Monday. In his pockets were a penny, a button-hook, and a toothpick; in his stomach carbolic acid.

#### An Anti-vaccinationist Chemist.

At an anti-vaccination demonstration at Tunbridge Wells (Kent), last Thursday, Mr. Martin, chemist and druggist, High Street, Cliffe, Lewes, proposed a resolution to the effect that the compulsory Vaccination Acts were useless, cruel, unjust, and demanded immediate repeal. In the course of his speech, Mr. Martin stated that, as a chemist, he was strongly against vaccination, and he hoped that the chairman of the Tunbridge Board of Guardians, who was also a chemist, would soon have his eyes opened. The resolution was adopted.

#### Fire at a Croydon Pharmacy.

A fire broke out on April 11 at the Central Pharmacy, one of a newly-erected block of buildings in George Street, Croydon. The fire broke out in a bathroom, which had been fitted up as a photographic workshop. The work-bench, shelving, and curtains were well alight, but by prompt action the flames were soon extinguished. The damage, including the loss of a large stock of valuable negatives, is estimated at about 50l., and is covered by insurance. The fire originated from a photographic lamp, which had been left alight.

#### Caustic-potash Poisoning.

Ada Hargreaves, a little girl of between 3 and 4, picked up a ginger-beer bottle in her father's house, 25 Dickinson Street, Liverpool, last week, and she gave some of what was in it to her brother (aged 20 months), also taking some herself. They thought it was nasty, and ere long symptoms of poisoning came on. The children were taken to the Southern Hospital, where the boy died. The bottle had contained solution of caustic potash.



## Giving Ergot.

William Smith (30), grocer's assistant, was indicted at the Warwickshire Quarter Sessions, last week, for having, on December 10, at Coventry, unlawfully supplied to Ellen Heyes, Mount Street, 9 dr. of ergot of rye, knowing that the same was intended to be used with intent. Dr. A. Bostock Hill, who analysed the ergot, described its functions, and stated that he did not know that comparatively uneducated people regarded it only as a tonic. Miss Heyes described the circumstances which led up to her receipt of the drug from the prisoner, together with a letter from him recommending her to take the medicine. She, however, did not do so, but handed the bottles to her father, who gave them to Chief Constable Gray. For the defence, it was alleged that she had acted in this way because the prisoner had not married her, and also that the drug was innocuous if taken in the doses prescribed, and that it had not been proved that the object of the prisoner in sending the bottle was that mentioned in the indictment. Smith's late employer, in whose shop Smith has been employed for five years, gave the prisoner a character for honesty, sobriety, and industry. The Chairman summed up the case to the jury, who found the prisoner guilty, but recommended him to mercy on account of his previous good character. The Court, concurring with this recommendation, sentenced him to twelve months' imprisonment with hard labour.

## J. Ennals v. The Berkefeld Filter Company.

This action came on for hearing at the last sitting of the St. Neots County Court, when the defendants were represented by Mr. Wheeler. The plaintiff sued the defendants to recover the sum of 3*l.* 3*s.* for services rendered, but after a lengthy hearing his Honour gave judgment for the plaintiff for 1*l.* 1*s.*, without costs or fees of any kind.

## A Company Refusing Inspection of its Register, &amp;c.

At the Liverpool Police Court, on April 11, Dr. Samuel Kleeman, analytical chemist, summoned Messrs. Douglass, Wall & Co. (Limited), oil and colour manufacturers, carrying on business in Seel Street, for refusing to allow him, as a shareholder, an inspection of their register of shareholders. There were similar summonses against Mr. Wall, the managing director, and against Mr. Bentley, another director. The complainant held 100 preference shares of 10*l.* each in the company. He had formerly been in their employment, and had recently been in litigation with them. Proof was given that he went to the office of the company and tendered 1*s.*, but was told that Mr. Wall had gone to London, would not be back till the following Monday, and the register and other books were locked up. Since this summons had been taken out a copy of the register had been offered, but it was too late. The Magistrate thought a technical case had been made out against the company, on whom he imposed a fine of 5*s.* and costs, and dismissed the other summonses.

## Prescribing Chemists.

Dr. Wynn Westcott held an inquiry at Bethnal Green, on April 17, concerning the death of Alfred Wiggs, aged 3 years, the son of a painter. The mother deposed that the child had been ill for a week, and witness treated it for bronchitis. She procured three-pennyworth of mixture at "Dr." Lacy's, in the Whitechapel Road. Coroner's Officer: It is a chemist's shop, sir. Witness replied that she did not know the difference. About midday on Saturday the child became worse, and witness then procured a powder from another chemist and gave it to the child. At midnight the child was seized with a fit, and witness went for a doctor, but he refused to attend without a fee of 5*s.* Death ensued on Sunday morning. Dr. Quinlivan, another doctor, who saw it later in the day, stated that death was due to pneumonia and double pleurisy. The child must have been seriously ill for many days. The Coroner, addressing the mother, said that a chemist was taught to weigh up and sell medicine, but it was a great mistake to suppose he could give proper medicine for anyone merely on the symptoms being described to him. He was not supposed to know how to treat diseases, and the mother might just as well have asked her butcher to prescribe. A verdict of natural death was returned.



*Irish News*

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## Fires.

On Monday April 8, a fire broke out in the premises of Mr. G. A. Webb, druggist, 141 York Street, Belfast, which the brigade managed to put out with their hand-pump.

The premises of Mr. Kelly, drug and general merchant, Kilbeggan, were last week damaged by a fire, which originated from the explosion of a lamp. The damage is estimated at 200*l.*

## Held to their Tender.

At a meeting of the Westport Board of Guardians last week the drug-tenders were considered, and Messrs. Leslie & Co., of Dublin, were appointed the contractors. Attention was drawn to a discrepancy in the quotations for cod-liver oil, Messrs. Leslie & Co. tendering at 1*s.* 4*d.* per gallon, while the other tenders ranged from 4*s.* to 5*s.* 6*d.* per gallon. It was believed that Messrs. Leslie had made a mistake. "Well, we will hold them to it" was the remark of several Guardians.

## The Pharmacopœia not yet Out of Date.

The Local Government Board have written to the Poor-law Guardians at Lurgan informing them that the list of authorised drugs and medicinal compounds as given in the dispensary rules was prepared from the edition of the B.P. issued ten years ago; that this edition is still regarded as satisfactory; and that if any supplemental drugs are required for the dispensary not included in the authorised list a special requisition must be forwarded separately, stating the why and wherefore of the order.

## By Auction.

Atkinson's pharmacy, Harcourt Road, Dublin, was last week put up for sale by public auction as a going concern, and was "knocked down" for 170*l.* The "lot" included premises, stock, fixtures, and goodwill. The auctioneer deplored the hard times, and said the place was sold for a mere song.

Messrs. Jameson, Dublin, have purchased for 1,000*l.* the stores at the rear of Sackville Street, Dublin, which are in the possession of Messrs. Hamilton, Long & Co., State apothecaries.

## Business Changes.

Mr. G. Twinem, registered druggist, has opened a drug and chemical establishment at Meath Street, Dublin.

The Medical Hall, Lower Camden Street, Dublin, lately owned by Dr. Stritch, has been retaken, and will shortly be opened by the new occupier.

## An Offensive or Noisy Trade.

In the course of an injunction motion heard a few days ago at the Vice-Chancellor's Court, Dublin, it was stated on behalf of the plaintiff, the Earl of Pembroke, that a clause in the covenant of lease forbade the tenant carrying on the business of a druggist, apothecary, or any other offensive or noisy trade. The defendant wanted to carry on a private hospital at Fitzwilliam Square.

## Pharmaceutical Society of Ireland.

The following have passed the Pharmaceutical Licence Examination:—Messrs. J. T. Moore, A. J. Cahill, J. S. Corcoran, D. H. O'Sullivan, G. H. Carleton. Three candidates were rejected.

The following have passed an examination for registered druggists, held at Queen's College, Belfast:—Messrs. A. Bonar, G. Dancklefsen, W. Kernaghan, J. A. M. MacCormac, T. M. Shannon. Four candidates were rejected.





## Scotch News

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### A Leven Chemist Imprisoned.

At the Dundee Sheriff Court, on Thursday, April 11, Robert Johnston, chemist and druggist, Leven, Fife, pleaded guilty to having, on October 26, within the office of the National Bank of Scotland, in Leven, uttered as genuine a bill of exchange on which the name of George Young bore to be signed, such signature being forged. It was stated on behalf of the accused that during the recent coal-strike things had been going greatly against him, and that in a vain attempt to redeem matters he had forged the bill. Honorary Sheriff-substitute Shiell passed sentence of six months' imprisonment. The prisoner had been in business in High Street, Leven, for fifteen years, and recently became bankrupt.

### Castor Oil and Whisky.

An amusing defence was advanced by a grocer before the Cupar Magistrates the other day in reply to a charge against him for selling whisky to be consumed on the premises. It was that the grocer's customer had gone in for a dose of castor oil, and the whisky was thrown in simply to swill it down, but there was no charge for it. The Magistrates refused to swallow this story, a process all the more difficult because Scotch folk are not in the habit of patronising grocers for their physic or taking castor oil by the half-gill, which was the dose the grocer was said to have given.

### Business Changes.

Mr. John T. Coats is making considerable alterations in his branch pharmacy at Broughton Street, Edinburgh.

Mr. John Buchanan, chemist and druggist, Cullen, Banffshire, has left that town, having acquired a business in Leven, Fife. Mr. Buchanan was senior Bailie of Cullen.

The shop at 44 Broughton Street, Edinburgh, for some years carried on by Mr. William Aitken, jun., and since his removal from Edinburgh by his father, Mr. James Aitken, chemist, Pitt Street, has been closed, and the business concentrated at the Pitt Street pharmacy.

### Scotch Paraffin-trade.

The directors of Scotch oil-companies met privately in Glasgow on Wednesday to consider the continued rise in prices of American and Russian petroleum oil. After a prolonged discussion, it was agreed to raise the price of burning-oil 2d. per gallon, which is equivalent to 70,000% to 80,000% increased revenue, and makes the total increase this week 3d. per gallon. The Scotch output of burning-oil is 12,000,000 gallons.

### Personal.

Mr. Richard Clark, wholesale druggist, has been elected Chairman of the Edinburgh City Parish Council.

Mr. James A. Russell, chemist and druggist, 212 New City Road, Glasgow, the newly elected General Secretary and Treasurer of the Glasgow and West of Scotland Pharmaceutical Association, has been returned unopposed to the Glasgow City Parish Council.

### Correction.

We stated under "Business Changes" on April 6 that Mr. J. McGregor Morrison, chemist and druggist, of Grange Grove, was giving up that business and opening a new one in Elm Row, Edinburgh. We find that our information was incorrect. Mr. Morrison is opening a branch business in Elm Row, but he is not giving up his Grange Grove business. We regret that the error should have occurred.

## French News.

**SUBSTITUTE FOR PHOSPHORUS.**—The match-maker strikers at Pantin have passed a vote of thanks to M. Picquet, the chemist, of Rouen, who has discovered an ingredient which will do away with the use of white phosphorus.

**FIRE AT A MINERAL-WATER DÉPÔT.**—The mineral-water dépôt 36 rue Mathis, owned by M. Foucault, was completely destroyed by fire last Sunday. Cases containing several hundred thousand bottles of mineral water, packed in straw, were destroyed. The loss is estimated at 20,000.

**THE CHARGE AGAINST A MAYOR-PHARMACIEN.**—M. Merry, pharmacist and ex-mayor of Gien, who was condemned early in March to four months' imprisonment for fraudulent practices in connection with the supply of drugs to the hospital of Gien, has just had his case heard on appeal. He has been accorded the benefit of the Bérenger (first offenders) Act, but is prohibited from again holding any public office. It is now reported that he was rearrested soon after his release on a charge of fraud in connection with the water-supply of the town.

**SURGICAL FEES.**—The prefectural administration of Yonne has drawn up a scale of fees which they are to pay to doctors who give parish relief—that is, those belonging to the *Assistance Médicale*. Some of the fees appear ridiculous. For example, a franc is the fee for drawing a tooth, applying the speculum, or giving a hypodermic injection; for reducing a fracture, 5f. is given (3f. only for the clavicle, but 10f. for the femur). Amputation of a limb is rewarded by a fee of 30f., but, if the case is not urgent, less may be given. The medical men have refused to accept the scale of fees.

**THE NEW DENTISTS LAW.**—Previous to the law of November 30, 1892, practically no guarantee was connected with the profession of dentist in France, but at present the diploma of doctor of medicine or a special certificate is necessary. An article, however, inserted in the law, states that dentists established previous to January 1, 1892, can continue to exercise their profession without possessing the diplomas now required. A number of disputes have arisen in this connection, and the Council of State has endeavoured to place the matter on a proper basis by defining the conditions essential for complying with the new law. Thus dentists who were registered as such on the date above mentioned, but did not actually practise, will have to pass their examinations or relinquish their businesses, while those who can prove that they were in practice on January 1, 1892, but for some reason had not been registered, will have no further trouble.

**CHEMICAL PROCESS FOR RECOGNISING HORSE-FLESH.**—The Paris Prefecture of Police has always experienced trouble in controlling the sale of horse-flesh. It appears that some 20,000 horses are killed in the Paris abattoirs every year. M. Humbert, following the experiments of the Belgian chemists, Brantigam and Edelmann, believes he has succeeded in finding a reliable process for recognising horse-flesh. This consists in using a solution of iodine on *bouillon* obtained from meat; that of horses gives a violet-red reaction which is not obtained from other flesh. The following is the process followed:—50 grammes of muscular tissue, cut very small, are boiled for an hour in 200 grammes of water; nitric acid (5 per cent.) is added to the liquid when cold; the solution is then filtered and treated in a test-tube with a saturated solution of iodine in water, adding the latter drop by drop, so that the two liquids shall not mix. In the case of horse-flesh, a violet-red ring, more or less dark, becomes apparent, which is not obtained with decoctions of other meats. When the reaction is not very apparent, or doubtful, a 3-per-cent. solution of caustic potash is recommended instead of ordinary water.

**THE PARIS OCTROI AND MEDICINAL WINES.**—The litigation and consequent friction between manufacturers of medicinal wines and the Paris Octroi authorities will probably come to an end through a recent decision of the Court of Cassation. Kola wine was the preparation which formed the subject of the lawsuit, but the decision sets forth in general terms that pharmaceutical preparations, when ex-



clusively of a medicinal character, cannot be subjected to the city dues applied to other wines and alcohol. The judgment adds:—"It has been proved, after analysis by various experts, that tincture of kola or extract of *Sterculia acuminata* is an exclusively medicinal product. It constitutes a purely medicinal agent, and cannot be assimilated to products used indiscriminately as remedies or as spirituous compounds for ordinary consumption. This is evident from its therapeutic character, and to the dangers which the use of the product offers by reason of its poisonous nature. The experts have conclusively proved that the alcohol which serves as a vehicle to the drug takes a medicinal form, and consequently the laws concerning beverages of a spirituous nature cannot apply to it." The Oetroi authorities were ordered to pay the costs of the lawsuit and also an indemnity to the defendants.

## Foreign and Colonial News.

**COST OF THE JONIAUX TRIAL.**—The total cost of the lawsuit against Madame Joniaux, the Belgian poisoner, whose appeal has recently been rejected, is 57,237f, including 24,000f. paid in fees to medical and chemical experts.

**ELATERIUM** can be imported free into the United States because it is considered to be a crude drug. A decision to this effect has just been given, the Judge saying that the simple process of evaporating and drying does not advance it beyond the condition of a crude drug.

**ALUMINIUM-WORKS IN SWEDEN.**—It is reported from Bergen that an English company have purchased the Sandvenvaudet waterfall near Odde, Hardanger, for the purpose of utilising its power in connection with an aluminium-factory they propose to establish there.

**S. M. BURROUGHS MEMORIAL.**—Mr. A. H. Mason, Secretary of the New York Committee, has received the following subscriptions to this fund:—Fairchild Bros. & Foster, \$125; Ladd & Coffin, \$50; Professor Remington, \$25; James Hartford, \$25; C. W. Snow, Syracuse, \$10; William O. Blanding, \$5. This was before April began.

**PHENACETIN IN U.S.A.**—There is only the width of a river between Detroit and Canada, and it is not surprising that druggists from the former should take a postprandial trip across to Walkerville, and get there small things upon which there is a heavy U.S. duty or other peculiar restrictions. That is the case with phenacetin, and twenty-one Detroit druggists have been called upon by the owner of the American phenacetin patents to pay up for phenacetin which has not passed through his hands.

**A NARROW ESCAPE.**—Mr. Harry Bamford, chemist and druggist, Georgetown, Jamaica, has recently had a narrow escape. He was summoned suddenly on a dark night for a bottle of medicine for a patient on board a vessel which was lying in the harbour. In walking the plank leading to the ship Mr. Bamford fell a depth of 20 ft. into the water, and after an exciting time he was rescued by a man who was let down by a rope. Mr. Bamford is a native of Stalybridge, and is expected home on a visit this summer.

**GERMAN v. FRENCH DIPLOMAS IN ALSACE-LORRAINE.**—There are now, according to the *Pharmaceutische Zeitung*, only sixteen pharmacists left in Alsace-Lorraine who hold the old French pharmaceutical diploma, against 217 pharmacists who have graduated in Germany. In the medical profession the proportions are somewhat less unfavourable to the French element. There are 83 medical men and 21 veterinary surgeons with French and 563 medical men and 45 veterinary surgeons with German diplomas.

**OHIO DRUGS.**—The trouble between the pure food and drugs people and the druggists of Cincinnati continues. There have been about a dozen more arrests. A druggist was arrested for selling powdered slippery elm, said by Professor Fennel, the analyst, to be adulterated with starch. The Judge instructed the jury that the powder had been sold for external use, and that there was no case; but the jury found the accused guilty. A point in the case is that the label stated that the drug was not pure, and was to be used for poultices. The purchaser wanted to take it for

dysentery. There will be a new trial. Eight druggists have each been fined \$25 and costs for selling other drugs found to be adulterated.

**DRUG-IMPORTS INTO CONSTANTINOPLE.**—The German Consul in Constantinople, in a report which has just been published, observes that the importation of quinine into his district has diminished in the course of the last ten years from about 35,000 to about 25,000 oz. per annum. Quinine, so far as Constantinople is concerned, is now scarcely an article of sufficient commercial importance to merit special reference. Germany, Italy, England, and France supply the requirements. With regard to the importation of drugs and chemicals generally, the statistics are so badly kept that it is useless to quote them. It appears from the statements of dealers that the total annual imports of foreign drugs and medicaments into Constantinople are worth about 62,000l., of which about one-half comes from Germany.

**GERMAN CHEMICAL DIVIDENDS.**—The Council of the Farbwerke, vormals Meister, Lucius & Brüning, have decided to declare, for 1894, a dividend of 28 per cent., equal to that of 1893. The net profits of the Chemische Fabrik Griesheim for 1894 have been 1,265,095m. The shareholders will receive the same dividend as in 1893—viz., 16 per cent. The chemical and pharmaceutical factory, late C. F. Asche & Co., of Hamburg, have declared an 8-per-cent. dividend for 1894, against one of 6½ per cent. for 1893. It is proposed to increase the share capital of the Berlin Actiengesellschaft for aniline-manufacture by 1,000,000m, in order to provide for the extension of the works. The gross profits of the company for 1894 were 2,768,596m., out of which a 12½ per cent. dividend will be paid.

## Pharmaceutical Society of Great Britain.

### APRIL EXAMINATIONS.

AT the meeting of the Board of Examiners, in Edinburgh, the following were the successful candidates:—

#### Major Examination.

Carter, Wm. Henry, Manchester  
Gates, Colvin, Glasgow

Grier, James, Penicuik

#### Minor Examination.

Adams, Wm. Stuart, Edinburgh  
Akeroyd, Chas. Edward, Edinburgh  
Barton, Albert Henry, Manchester  
Bell, John R., Newcastle-on-Tyne  
Bennie, John Wood, Poimont  
Bowie, William, Glasgow  
Brown, Harold Edwin, Sheffield  
Campbell, Andrew T., Dumbarton  
Charnley, Arthur W., Blackburn  
Clark, Joseph Branch, Edinburgh  
Cooke, Charles W., Liverpool  
Crawford, Andrew, Edinburgh  
Crofts, John Lawrence, Edinburgh  
Darney, Wm. Ephraim, Manchester  
Davidson, Samuel R., Edinburgh  
Dawson, Peter, Glasgow  
Dickson, Thomas George, Edinburgh  
Downey, John George, Edinburgh  
Fishbourne, Jas. Wm., Edinburgh  
Forbes, John, Edinburgh  
Fortune, William, Edinburgh  
Fraser, Henry, Aberdeen  
Fuller, Herbert Emery, Norwich  
Galloway, Alexander S., Manchester  
Gambling, John P., Manchester  
Gammie, John Lawrence, Glasgow

Harrison, Edward E., Sunderland  
Howorth, Fredk. A., Manchester  
Hoyle, Arthur, Bradford  
Hull, John Heber, Rotherham  
Kershaw, Frank B., Manchester  
Leach, Albert Henry, Manchester  
Mennie, James, Golspie  
Mercer, Fredk. Peter, Manchester  
Merry, Charles, Johnstone  
Orrell, Wm. Pilling, Manchester  
Palmer, Charles Nicholas, Durham  
Purdie, Wm. Alexander, Loanhead  
Robertson, Daniel C., Edinburgh  
Robertson, James, Edinburgh  
Rowell, Thos. B., Newcastle-on-Tyne  
Russell, George Erskine, Paisley  
Scott, Walter, Newcastle-on-Tyne  
Simpson, Richard T., Manchester  
Smith, Thomas Wm., Sheffield  
Smith, Walter, Liverpool  
Thompson, Wilson, Edinburgh  
Uttley, John R. S., Masborough  
Walker, James D., Edinburgh  
Waterson, Jas. Albert, Edinburgh  
Wright, Wm. Bruce, Greenock  
Young, Alexander, Leith

**THE AIR CURE.**—Bystander (to crowd pressing around a way-worn tramp who has fainted): "Stand back, I say; give him air!" Tramp (recovering): "A'r, guv'nor; air? W'y, I ain't ad nothink but air fur three days!"



## The Winter Session.

### SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.

THE last general meeting of the present session of the Sheffield Pharmaceutical and Chemical Society was held on Wednesday, April 10, Mr. J. F. Eardley, President, in the chair. The evening was spent in discussing a paper, read by Mr. S. T. Rhoden, on

#### EXAMINATIONS AND THE RELATIVE POSITIONS OF THE TEACHING AND EXAMINING BODIES.

Mr. RHODEN maintained at the outset that the charge of apathy obtaining among the outside members of the profession, so often deplored by the well-wishers of the Pharmaceutical Society of Great Britain, did not apply to Sheffield, where the members of the craft had ever been ready to express an opinion upon, and take an interest in, questions affecting their position and interests. Defining examinations as a process of a polyfold character, he said the purpose of examinations with which he intended to deal was that which determined whether the examinee should receive the necessary legal qualification to prosecute the avocation of a pharmacist. After describing the varied objects of examinations, he went on to describe the position of the teaching bodies as one of the greatest responsibility and delicacy, inasmuch as they, to a large extent, controlled the destinies of those who committed themselves to their care. A careful training must be acknowledged to be of the highest importance, as education became thereby the key-stone to examination. The position of the examining bodies was justly accounted as being as delicate, much more intricate, and less enviable than that of teaching bodies, because their contact with the life and susceptibilities of students is of short duration, and because, moreover, the capabilities and resources of the student have become by the time he presents himself for examination almost a known quantity. The duties of the examining body are to endeavour by a process of general questioning, not always without a little reasoning, to ascertain if the examinee has so trained his mental faculties as to have earned that qualification or licence necessary to enable him to pursue his avocation. Turning to the much-discussed question as to the teaching staffs becoming their own examining bodies, he pointed out it was for those interested to consider how far teachers could do this without bias. Examining bodies must be above suspicion. He held it must be allowed that teachers make the best examiners, because, owing to their experience of the peculiarities of students, they are most likely to foster that sympathy which should exist between them and the candidates. On the other hand, the fact should not be overlooked that in the event of teachers sitting as examiners, in the course of time it must come about that their pupils would come before them to obtain that very qualification for which they had jointly laboured. He asked, Would not such an arrangement admit of collusion, or, at any rate, give rise to a suspicion of it? He also asked, How the amalgamation could overcome the difficulty experienced in defining some of the elementary sciences except by collusion?

Mr. WARD suggested an alteration in the methods of examinations by which a student who failed in only one subject would not be compelled to pass again in subjects in which he had been successful. He thought a candidate should only be required on a second examination to pass in the subjects in which he had previously failed. He also thought the Minor and Major examinations might be merged into one, to be passed on two different occasions—the first part in writing and the last a practical one.

Mr. MORRISON said the suggestion seemed to be that if teachers in the Pharmaceutical School were examiners they would be tempted to favour those who had been taught in the school. He had doubted the wisdom of the arrangement alluded to by the reader of the paper, and had there been a preponderance of successes on the part of students at Bloomsbury Square he would have raised his objections to it, but such was not the case—in fact, the students in the institution had not been so successful as those taught else-

where. He would rather be examined by a teacher than by a duffer. He did not agree with the suggestion as to the merging of the Minor and Major, and would like to see more subjects in the Preliminary examination, and have it more on the lines of the London Matric., though hardly so stiff.

Mr. MALLABAND thought that to appoint as examiners professors at Bloomsbury Square would be unfair to students trained at other schools. It could hardly be expected that examiners who were also teachers could in every case resist the temptation to favour their own pupils.

Mr. RHODEN having replied on the discussion, he was thanked for his paper.

### BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

A GENERAL meeting of the above Association was held at their headquarters, 2 Sillwood Terrace, on Wednesday, March 27, for the election of officers and committee for the ensuing session. Mr. C. G. Yates, the outgoing President, was in the chair, and made an appropriate and retrospective speech on the work of the session; and Mr. F. A. Crowhurst, in place of the Treasurer, submitted the financial report, which showed a substantial balance on the right side. The following are the new officers elected:—President, Mr. Grindley; Vice-President, Mr. Jeeves; Secretary, Mr. Barrett; Treasurer, Mr. Gosling; Assistant-Secretary, Mr. Beckwith; committee, Messrs. C. Crowhurst, F. A. Crowhurst, A. E. Colman, Chas. Kent, H. G. Price, Cupit, and Sadler. A hearty vote of thanks was unanimously accorded to Mr. C. G. Yates and his brother officers and committee for the successful issue of their labours during the session. The result of the examination on botany which recently took place was declared as follows:—First, Mr. Beckwith; second, Chas. Kent.

### SOCIETY OF CHEMICAL INDUSTRY.

THE New York Section held a meeting on Monday, April 1, in the Museum of the New York College of Pharmacy, Mr. Alfred Henry Mason, the Chairman of the Section, presiding. The first paper presented was by Mr. G. Donald on "The Use of Ferro and Ferri Cyanides as Mordants for Basic Aniline Dyes." The paper was a brief one, and its object was merely to show that Charles Riber, junior, had used the process indicated as early as 1884, though a so-called patent was obtained on the process by another person some two years since. The principal interest of the evening centred in a paper by Mr. L. F. Kehler, on "The Morphometric Assay of Opium." This paper was mainly devoted to a consideration of the relative value of the various methods of correction of results, the United States pharmacopoeial process of assaying being cordially endorsed. Mr. Kehler gave preference to the ash-correction method, his second choice being by titration with standard acid, his third the lime-water test, and fourth the absolute alcohol test as proposed by Stilwell. In the discussion which followed, Dr. Stilwell and Dr. Edward R. Squibb participated, both favouring the absolute-alcohol method and emphasising the necessity for and the difficulty of obtaining really absolute alcohol. A paper entitled "An Historical Sketch of the Coal-tar Dye Industry in the United States," by F. J. Schoelkoff, was read by the Chairman.

PLAIN AND OLD ENGLISH.—A boy went into a druggist's shop in Aberdeenshire, and putting a penny and a piece of paper on the counter, demanded "a pennyworth o' that." The apprentice opened the paper, on which was written "Ehsa." After vainly trying to make out what was wanted he asked the boy, "Who wrote that?" "Ma mither," said the lad. "Weel, yer mither'll hae to come an' tell us what she wants, for I dinna ken." In a few minutes the boy came back with his mother, and she was very indignant. "Wis't you 'at couldna read the line I sent for it?" ("saw" being the vernacular for "salve" or ointment). The apprentice admitted his inability to understand the line. "Weel, weel," said the angry lady, "a fine droggist ye are. I dinna ken foo ye'll come on fin ye get een o' the doctor's Latin superscriptions to mak' up, fin ye canna read a plain English een."



## Bankruptcy Report.

**Re WILLIAM BOYD & Co., Thornton, N.B., Manufacturing Chemists.**

THE statement of affairs filed under this sequestration shows gross liabilities amounting to 4,723*l.*, of which 3,355*l.* is due to unsecured trade creditors. The assets are as follow:—Buildings, plant, machinery, &c., cost 8,000*l.*, estimated to produce 3,500*l.*. On this property there is a bond for 1,500*l.*, so that the amount available for dividend is estimated at 2,000*l.* only. Stock-in-trade, valued at 1,172*l.*; book-debts, estimated to realise 437*l.*; total assets, 3,609*l.*, from which 506*l.* has to be deducted for the claim of preferential creditors payable in full, leaving net assets at 3,103*l.*, and showing a deficiency of 1,620*l.*. The separate estate of William Boyd shows cash creditors and sundry personal accounts amounting to 1,190*l.*, and the assets—consisting of household furniture valued at 150*l.*, and life policy valued at 40*l.*—are returned at 190*l.*. The following is a list of the principal creditors interested hereunder:—

	£	s.	d.
Alloa Glassworks Company, Alloa .. .. .	19	0	0
Bryce, J., St. Helens .. .. .	61	0	0
Carruthers & Gemmill, Glasgow .. .. .	8	0	0
Cooper, J., & Son, Glasgow .. .. .	13	0	0
Cunningham, J. & J., St. Helens .. .. .	10	0	0
Fergus, W., Glasgow .. .. .	8	0	0
Fraser, A., & Son, St. Helens .. .. .	10	0	0
Hinselwood & Co., Glasgow .. .. .	11	0	0
Kirkcaldy Chemical Company, St. Helens .. .. .	8	0	0
Kirkpatrick, A. J., & Co., Glasgow .. .. .	2,057	0	0
Low, A., & Co., St. Helens .. .. .	26	0	0
Mason & Barry (Limited), St. Helens .. .. .	211	0	0
Meville, W., St. Helens .. .. .	41	0	0
North British Railway, St. Helens .. .. .	275	0	0
Nuttall & Co., St. Helens .. .. .	30	0	0
Paterson, B., & Co., St. Helens .. .. .	8	0	0
Strathclyde Paint Company, St. Helens .. .. .	25	0	0
The Balgonie Company, Markinch .. .. .	225	0	0
Thomson Brothers, St. Helens .. .. .	79	0	0
Thomson, R., & Son, St. Helens .. .. .	12	0	0
Veitch, John, St. Helens .. .. .	30	0	0
Wood, R., St. Helens .. .. .	66	0	0

## Deeds of Arrangement.

**Economic Chemical and Supply Company (James Blenkinsop, trading as), Wragby Street, Grimsby, and Elm Lodge, Egham, manufacturer of anti-fouling composition, jams, pickles, and aerated waters. Trustee, Joseph H. Scott, Hull, accountant. Dated, March 23; filed, April 5. Unsecured liabilities, 3,324*l.* 10*s.*; estimated net assets, 2,500*l.*; creditors fully secured, 5,600*l.***

**Ellis, Thomas Wokes, 8 Prospect Street, Hull, chemist. Trustee, Thomas F. Judge, 3 Parliament Street, Hull, accountant. Dated, April 3; filed, April 9. Unsecured liabilities, 531*l.* 0*s.* 7*d.*; estimated net assets, 157*l.* 2*s.*. The following are scheduled as creditors:—**

	£	s.	d.
Albion Albumenising Company, Glasgow .. .. .	25	0	0
Harker, Stagg & Morgan, London .. .. .	15	0	0
Kemp, G. W., Hull .. .. .	90	0	0
Levi, Joseph, & Co., London .. .. .	26	0	0
Myers, George, Hull .. .. .	10	0	0
Sheffield Photo Company, Sheffield .. .. .	12	0	0
Smith, William, Hull .. .. .	16	0	0
Tidman & Son, London .. .. .	10	0	0
Wilkinson, J. J., Hull .. .. .	35	0	0
Woolons, J. T., Withernsea .. .. .	20	0	0

Bankers' claims, 166*l.*

**Thompson, Thomas, 3 Lyndhurst Street, South Shields, mineral-water manufacturer. Trustee, William A. Smith, Commercial Charles King Street, South Shields, accountant. Dated, March 23; filed, March 29. Unsecured liabilities, 72*l.* 17*s.* 4*d.*; estimated net assets, 13*l.*. The following are scheduled as creditors:—**

	£	s.	d.
Barnett & Foster, London .. .. .	13	0	0
Nicholson, John, & Sons, Leeds .. .. .	13	0	0

**Twigg, Frederick Graham, Market Street, Mexborough, Bridge Street Swinton, and Denaby Main, near Rotherham, surgeon. Trustee, William Holmes, Sheffield, accountant. Dated April 4; filed April 10. Unsecured liabilities, 3,476*l.* 5*s.* 10*d.*. Estimated net assets, 408*l.* 6*s.* 8*d.*. Creditors fully secured, 50*l.*. The following are scheduled as creditors:—**

	£	s.	d.
Beevers, William (Exors. of), Mexborough .. .. .	25	0	0
Burman, W. M., Wath-on-Dearne .. .. .	90	0	0
City Discount Company, Sheffield .. .. .	25	0	0
Commissioners of Inland Revenue .. .. .	20	0	0
Crossley, Edward, Barmborough .. .. .	26	0	0
Dodsworth, Samuel, Mexborough .. .. .	28	0	0
Fredd, S. A., Doncaster .. .. .	18	0	0
Hattersley, Bros. & Co., Swinton .. .. .	16	0	0
Hattersley, J. W. & A. E., Mexborough .. .. .	19	0	0
Hellewell, George H., Bolton-on-Dearne .. .. .	15	0	0
Johnson, Samuel, & Sons, Wath-on-Dearne .. .. .	119	0	0
Kino, Charles, Sheffield .. .. .	19	0	0
National Telephone Company (Limited), Sheffield .. .. .	16	0	0
Ogley, Mary, Conisborough .. .. .	650	0	0
Reynolds & Branson, Leeds .. .. .	89	0	0
Richardson, John, & Co. (Limited), Leicester .. .. .	86	0	0
Slinger & Co., York .. .. .	45	0	0
Thompson, Amos, Mexborough .. .. .	64	0	0
White, George, Mexborough .. .. .	31	0	0
Wood, Joseph (Exors. of), York .. .. .	32	0	0

Bankers' claims, 1941*l.*

## Gazette.

### PARTNERSHIPS DISSOLVED.

**Banham, G. A., and Bennett, S.,** under the style of Banham & Bennett, Cambridge, veterinary surgeons.

**Howse, P. W. McD., and Williams, L.,** under the style of Howse & Williams, Barking Road and Victoria Dock Road, Canning Town, E., medical practitioners.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDER.

**Meerwald, Osborne Spencer, Churchfield Road, Acton, W., surgeon.**

#### ADJUDICATION.

**Skeutelbery, Thomas, Bicester, chemist and druggist's assistant.**

## Trade Notes.

CHEMISTS should see to it that they secure to themselves the trade in weed-killers this year. They and they only have the right to sell these. They will find some advertised.

THE cricketing season nominally commenced on Easter Monday, and Messrs. W. J. Bush & Co. Artillery Lane, E.C., were ready for it with their new soluble essence "W. G.", which has been approved by Dr. W. G. Grace.

WE are informed that the legal formalities of transferring the business and patents of the Liquor Carnis Company to its former managing director, Mr. William Shepperson, have now been completed. The business will still be carried on under the style of the Liquor Carnis Company, and with the same staff.

WE hear an interesting piece of news—viz., that Messrs Bratby & Hinchliffe (Limited) are to establish a branch of their aerated-water machinery business in New York City. This is noteworthy, because there is a big field for bottled aerated-waters in the United States, and a good opening for relief from the thralldom of the soda-fountain.

SHEPPERSON'S concentrated meat-juice, the new form of liquor carnis sent out by the Liquor Carnis Company, Aston Clinton, has a nice roast-beef flavour, and is put up in excellent style, a 2-oz. bottle retailing for 1*s.* 9*d.* The place of raw-beef juice in feeding the prostrate is now well recognised by physicians, but it may not perhaps be as well known to retailers of such preparations that under certain circumstances raw-beef juice and raw eggs given alternately may tide a patient over that critical period which so often ends in death. To many the preparation of beef-juice is an impossible thing, and in such cases Shepperson's product is advantageous.



## Wills of Deceased Chemists.

The will of Mr. John Shemmonds, of Winton, near Bournemouth, chemist, who died on August 22, 1894, has been proved by Mr. Alfred Herbert Jolliffe, of the Arcade, Bournemouth, the sole executor, by whom the gross value of the testator's personal estate is sworn at 3,940*l.* 16*s.* 2*d.*, and the net at 3,703*l.* 15*s.* 3*d.*

The will, with two codicils, of Mr. Wm. Cadd, of Bideford, Devon, chemist and druggist and postmaster, who died on December 26, has been proved at the District Probate Registry by Mr. Wm. Cadd, chemist, the son, and Miss Elizabeth Cadd, the daughter, by whom the gross value of the testator's personality is sworn at 6,357*l.* 14*s.* 1*d.*, and the net value at 6,213*l.* 18*s.* 4*d.*

The will of Mr. Wm. Jas. Bowles, of 3 Newlands Terrace, Kensington, and Brookville, Brook Green, chemist, who died on September 18, has been proved by Mrs. Aline Bowles, the widow, and Mr. J. F. Harrington, of 45 Kensington High Street, chemist, the executors, by whom the gross personality is sworn at 10,060*l.* 11*s.* 9*d.*, the net amount being 6,334*l.* 15*s.*, and the stamp-duty 192*l.*

The will of Mr. Seymour Willoughby, of 95 Down's Park Road, Clapton, described as of no occupation, who died under sad circumstances at his residence on December 8, has been proved at the Principal Probate Registry by Mrs. Marianne Willoughby, the deceased's widow and sole executrix, by whom the testator's gross personal estate and effects are sworn at 1,886*l.* 8*s.* 1*d.*, the net amount not being stated.

The will of Mr. Thomas Holmes, of Hayward's Leigh, Sharples, near Bolton, late of Messrs. Moscrop & Co., wholesale druggists, who died on October 23, 1894, has been proved at the District Probate Registry by Mrs. Eleanor Ann Holmes, the widow, Mr. Charles Butler Holmes, of Wigan, the brother, Mr. Thomas Loftus, solicitor, of Blackpool, and the Rev. Geo. Bradley Jones, of St. Peter's Rectory, Levenshulme, the executors named therein. The gross personal estate of the testator is sworn at 27,854*l.* 1*s.* 10*d.*, and the net at 25,410*l.* 11*s.* 1*d.*

At the Principal Probate Registry the will of Mr. Henry Stevens Jones, formerly of 139 and 171 Fulham Road, and late of 19 Chesilton Road, Fulham, pharmaceutical chemist (retired), who died on November 17, has been proved by Mrs. Ann Mary Jones, the widow, and Mr. Hy. Stevens Jones, of The Square, Royal Naval Hospital, Plymouth, of her Majesty's Medical Stores Department, the son, the surviving executors—Mr. Chas. Jas. Vyner, the other executor-nominate, having died on December 2, 1890. The gross value of the testator's estate is sworn at 4,556*l.* 2*s.* 4*d.*, of which 2,812*l.* 3*s.* 4*d.* is personality, the balance being realty.

The will, dated February, 1893, but, in fact, executed on the 7th of the following month, of the late Mr. S. M. Burroughs, who died on February 6 last, at Monte Carlo, has been proved in London by Mrs. Olive A. C. Burroughs, of Darrington Lodge, Surbiton, the widow. The testator leaves his jewellery to be divided between his children by his widow; his plot of land in Medina, U.S.A., to that town as a playground; and his copy of "Darkest Africa" to his son Stanley. He proceeds: "I desire my executors hereinafter named (Mrs. Burroughs, who is acting, and Mr. Theodore Barrett, for whom power to prove hereafter is reserved) as soon after my death as it conveniently can be done without prejudice to my estate, to settle and close my interest in the business of Burroughs, Wellcome & Co., and the money received therefrom to add to the residue of my estate, which residue, together with the amount so received in settlement of my interest in the business of Burroughs, Wellcome & Co., shall be divided into twenty-four equal parts or shares, and disposed as follows:—

"Four twenty-fourths to my dear wife Olive absolutely.  
 "Three twenty-fourths to my daughter Anna.  
 "Three twenty-fourths to my daughter Frances.  
 "Three twenty-fourths to my son Stanley.  
 "Two twenty-fourths to my sister Lina.  
 "One twenty-fourth to Mr. Theodore Barrett, for his services as executor.

"One twenty-fourth to Mr. John Parsons, if surviving; if not, to testator's widow.

"One twenty-fourth to the Edinburgh Medical Mission.

"One twenty-fourth to the Presbyterian Missionary Society.

"One twenty-fourth to the Presbyterian Church, Medina, U.S.A.

"One twenty-fourth to the cemetery in Medina.

"One twenty-fourth to Henry George, 'the earnest advocate of the Single Tax'

"One twenty-fourth to the North African Mission at Tangiers.

"One twenty-fourth to those in the employ of Burroughs, Wellcome & Co. at the time of testator's death."

The value of the testator's personality in England, which is exclusive of any freehold properties, is sworn at 125,926*l.* 1*s.* 9*d.* By a clause in his own handwriting at the end of his will, testator says: "I wish my remains cremated, or buried in the earth enclosed only in a basket."

The will of Mr. James Atkinson, of Ninoso, Lansdowne Road, Worthing, and of Old Bond Street, perfumer, who died on February 24 last, has been proved, the gross value of the personality being 61,682*l.* 4*s.* 4*d.* Subject to a life interest left to his widow most of the estate is to be in trust in equal shares for all the testator's children. The executors, his widow, his brother Edward, and his son James Lawrence Atkinson, are authorised to concur in carrying on the partnership business in Old Bond Street, but not more than 1,000*l.* a year of the testator's share of the profits are to be regarded as income, and the balance is to be added to capital.

## THE PROFESSIONAL CHEMIST.

With a mien austere and a brow severe,  
 And a face that is full of care,  
 And a thoughtful smile—not a trace of guile  
 Or a glimpse of joy is there;  
 With his gold-rimmed specs, through which wisdom becks  
 To the ignorant seeking truth,  
 And which oft are dim at the thought of him  
 Whose ways are ways uncouth  
 (And who happens to be, by heaven's decree,  
 The apprentice—goodly youth!).

With his black frock-coat and his Council vote,  
 And his analytic skill,  
 He tests the bread and he finds a shred  
 Of the blue mercurial pill.  
 His wrath is great, and he seals the fate  
 Of the cook with the orbs of blue  
 (While the youth sings lays of his childhood's days,  
 And his home and friendships true,  
 As he sits on the head of the boy who said  
 He could punch him through and through).

With a noble scorn, of true greatness born,  
 He sneers at those who prescribe;  
 While his pen indites to these luckless wights  
 Scathing words which they ill imbibe.  
 And the butcher Kamm, when his diaphragm  
 With colic pain inflates,  
 Must kick and swear, and the pain must bear,  
 Till he sends for Doctor Bates  
 (While the ginger draught from the 'prentice quaffed  
 Will cure him while he waits).

W. C.

TEA-GROWING IN MAURITIUS.—The extremely unsatisfactory condition of the sugar-trade has caused the Mauritius planters to turn their attention to tea-growing. According to the Ceylon *Tropical Agriculturist* several hundred acres have already been planted with tea in Mauritius, and there is every prospect of a "rush" into the new culture. Wages, however, are rather high in Mauritius, and it is thought, therefore, that only a superior quality of tea will be found to pay. Mr. A. J. Carson, an old Ceylon planter, has started an experimental garden under the auspices of the Mauritius Government.



## The Drug-trade in Newfoundland.

EVERYONE read the accounts in our newspapers some weeks since of the financial crisis that overtook Newfoundland, and many people are wondering what will be the political future of "our oldest colony." Incorporation with the Dominion of Canada appears to be the most probable solution of the difficulty in which Newfoundland, largely through its own fault, now finds itself. From a commercial point of view such incorporation would probably mean an immediate loss to British trade, although ultimately matters would right itself. What this would exactly mean we are scarcely able to say, for we have not been able to obtain figures relating to the importation of pharmaceutical goods into Newfoundland, but the total value of the import trade of the island, in normal years, is about \$7,000,000, of which the United Kingdom supplies about one-third and British possessions about one-half. The exports from Newfoundland are worth about \$7,500,000, of which about one-fourth is shipped to the United Kingdom. The island, which is as large as Ireland, is capable, in

in the care of these eminent merchants, and were habitually kept in the dark, the director-coteries filling up vacancies as they chose, and simply informing shareholders, when the annual meeting came round, that Mr. A. or B. had resigned owing to his retirement to England or Scotland, that they had appointed his son and his partner to fill the vacancy, and that they asked for the confirmation of the appointment. They usually added, by way of salve, words to the effect that "the Bank has had a good year's business, and the usual dividend of 6 per cent. is now at your disposal." The credit system is to a very large extent responsible for the present miserable plight. Fully one-half of the average Newfoundland druggist's trade was done on credit—not only in St. John's, the capital, but also at the out-ports, and the pharmacist was but a type of all other traders in the island.

The pharmacy of Thomas McMurdo & Co., in Water Street, St. John's, is the largest business of its kind in the island. It was established in 1823 and destroyed by fire in 1891, when the greater portion of St. John's was burned down. But its enterprising proprietor, Mr. John McNeil, came through the fire, as he has come through the present financial crisis, not, indeed, wholly unscathed, but sound financially and individually. He has had the phar-



VIEW OF ST. JOHN'S, THE CAPITAL OF NEWFOUNDLAND.

spite of its rigorous winter climate, of great commercial development. At present it has only about 200,000 inhabitants, of whom about 30,000 live in St. John's, the capital. We are indebted to a Newfoundland correspondent for some interesting notes on the recent crisis and the general condition of pharmacy in the island.

The two Banks, whose failure to meet their obligations was the immediate cause of the Newfoundland crisis, are the Commercial Bank of Newfoundland, established in 1857, and claiming to possess a capital of \$306,000 and a reserve of \$100,000; and the Union Bank of Newfoundland, established in 1854, and working with a nominal capital of \$456,000 and a reserve of \$320,000. The two banks were owned almost entirely by local capital. When one of the directors of the Commercial Bank failed it was found that he owed the Bank \$600,000. A second director owed \$250,000, and a third \$200,000. In the case of the Union Bank the position of affairs was even worse. At the time when the Banks were established the local mercantile magnates who took the lead in their foundation were really men of substance. The position of bank-director became a kind of social guinea stamp, and has since been hardened down in the firm as a sort of hereditament. The shareholders, who ought to have looked after their own interests, felt safe

macy rebuilt in the best style—with marble floors, oak fittings, and electric light.

Mr. McNeil went to St. John's from Scotland thirty-four years ago, and entered Mr. McMurdo's service as an assistant, succeeding to the business in course of time. When Mr. McNeil first went to Newfoundland the drug-trade in St. John's was represented by four different establishments; but the only imported pharmacist was the late Thomas McMurdo, who had served his apprenticeship in Dumfries with Dr. Russell, and went to Newfoundland in 1830 to manage the business of a "Doctor" Bisett, whose whole treatment is said to have consisted of a free use of the lancet with sol. magnes. sulphat. colorat. as a P.S. This Dr. Bisett, having made what he considered enough, sold out and took passage to the old country in a vessel which was lost with all hands. Mr. McMurdo developed the drug-business to the most important one in the island. He died in 1880. Thirty years ago the medical profession in the island was represented by six practitioners, mostly graduates of British colleges. They dispensed their own medicines, and, as a rule, made yearly contracts with their patients. The general tariff, including medicine, was—single man or woman, 10s.; married couple with family, from 20s. to 30s. per annum; midwifery extra. Some of the doctors imported their own



medicines, but most of them dealt with local suppliers. In 1868 a medical society was formed, which changed the practice to the casual-visit system at from 50c. to \$1, according to the position of patient, the doctors ceasing to do their own dispensing. This system has prevailed ever since. At the present time there are nine drug-stores in St. John's, all in the hands of very competent men, so far as dispensing, &c., is concerned. In style and efficiency Newfoundland pharmacy is quite up to date, the medical men's qualifications being mostly British, but in some cases both British and American. Their professional literature, which is drawn from both sides of the Atlantic, has, of course, a large influence on the druggist, in so far as concerns the stock he has to keep. Being in close touch with the American continent they have frequent visits from agents of such firms as Parke, Davis & Co., Davis, Lawrence & Co., and others, who send round sample-cases to the medical men, and also call on them in person, submitting lists and asking the doctor to look over these and mark what he would like to try. Armed with his marked list, the "drummer" then visits the druggist, telling him what Drs. So-and-so are "on for"—a kind and exacting way of forcing sales. The Newfoundland druggist, as a rule, carries as complete a stock of British pharmaceutical goods as any of his colleagues in the large provincial towns in England or Scotland, besides an assortment of fluid extracts, elixirs, &c., which are not usually found in a British pharmacy. Proprietary medicines—English, American, and continental—abound. But these, as well as salts, senna, castor oil, ess. peppermint, &c., are kept by every general merchant in St. John's.

These general stores do the cutting-business in the wholesale way, and they do it very fine. The retail price for an English patent (1s. 1½d.) is 30c. American and Canadian patents, &c., are sold at the same price as in locality of manufacture, notwithstanding the expense of importation. In two or three leading proprietaries large sales are made without any profit. The duty on drugs is 12½ per cent. and on sundries 25 per cent. *ad valorem*. Most imports of drugs and chemicals are made from England and Germany; a good many, however, from the United States. New York, being so closely in touch with the island, is often required to supplement stock that in times past was entirely in the hands of English houses.

The Newfoundland pharmacists have a Society of their own, but it exists in name rather than in fact. It was formed some years ago with a big flare and noise, but for years there has been no meeting. The pharmaceutical business-hours in times past were from 7 A.M. to 10 P.M., with five hours on Sunday, all the year round; but during the winter season the hours have been shortened, and shops now keep open from 7 A.M. to 7 P.M., and again from 10.30 to 11 P.M., to meet pressing needs. On May 1 they resume 10 o'clock as the night hour to close.

The Newfoundland dispensing-rates are based upon the Scotch system of *pro rata* charge, the difference being that 20c. (10d.) is taken as the equivalent to the British shilling. Credits are large and long, twelve months being the generally accepted period, and accounts are rendered at the end of the year. This applies to all business in the island, excepting, it may be, to big transactions in the provision line. The usual apprenticeship period for a chemist is five years, commencing with a salary of \$80, with increases of \$20 per annum. Assistants' salaries range from \$240 upwards, according to length of service and to merit. Assistants leaving Newfoundland usually go to Western Canada or to the States. At the present time there are five or six assistants among the "unemployed" at St. John's.

There are four or five out-ports in the island possessing druggists' shops of their own. In Brigus one, Harbour Grace there are two or three, and in Carbonear one. These druggists draw most of their supplies from St. John's, but they also buy from the casual Yankee bagmen. The seed-trade is mostly in the hands of the druggists, and they all handle varnishes, &c.

In the fire of 1892, in St. John's, two chemists (Mr. O'Mara and McMurdo & Co) were burnt out, but both have again started in new premises. The loss to the drug-trade in general in the recent crisis does not amount to much. McMurdo & Co. are said to be the largest losers, as they are creditors in all the mercantile estates now in liquidation, mostly for goods of the jobbing class supplied to their out-

harbour establishments. Of course, all the chemists are losers in so far as they are holders of notes of the defaulting Banks but this loss is not at all great. At the present Newfoundland levies the same import-duties upon goods from all countries, but after the recent financial crash it looks as if there were no loophole for the island but confederation with Canada. If that should take place, the Canadian tariff would, of course, be adopted; but chemicals and crude drugs would still have to be imported from England. Canada now supplies the Newfoundland drug-trade with proprietary goods chiefly.

## Diary Competition.

### COLONIAL AND FOREIGN COUPONS.

THE response from colonial and foreign subscribers who received copies of THE CHEMISTS' AND DRUGGISTS' DIARY for 1895 and made a thorough examination of the advertisements in it has been good. We have beside us a big bundle of coupons from all parts of the world, and have thoroughly analysed them, with the result that the following are declared to be the favourites:—

1. Burroughs, Wellcome & Co.'s advertisement (pp. 161-187) is voted the one which *deserves to produce the best results*.
2. Thomas Tomlinson & Son's telegraphic address ("Tom-Tom") is considered the most appropriate.
3. Day & Sons' "Oil of the night" (p. 50) is ranked as the *most striking title of speciality*.
4. Day & Sons' page is also considered the *best illustration*.
5. Bowers Brothers' advertisement (pp. 96-97) is reckoned to be the *best from a literary point of view*.
6. Hearon, Squire & Francis take the lead for the *most artistic advertisement* (p. 224).
7. Day & Sons again score for the *best page*.
8. The Fish Biscuit Company have the highest place for the *best half-page* (p. 57).
9. Beecham's pills lead the way as the *most popular advertised article* (p. 273).

The voting has been somewhat scattered, and as a result no competitor has managed to place more than six of the leading articles according to the position given by the general vote. But half a dozen do that. We have 27.10s. in hand as a balance from the home competition, and adding another half-sovereign we shall send 10s. to each of the following, who have named six of the leaders:—

- J. S. DODDS, Akaroa, Canterbury, New Zealand.  
D. H. GOODMAN, 174 Clarendon Street, South Melbourne, Victoria.  
FRANK H. HANCOX, Kimberley, South Africa.  
CHARLES R. KIVER, Christchurch, New Zealand.  
THOMAS RUSSELL, c/o Mr. J. M. Jefferson, pharmacist, Auckland, New Zealand.  
ALBERT W. J. WRIGHT, Russell Street, South Brisbane, Queensland.

Elsewhere in this issue we comment upon the competition, especially in relation to the home one.

IMITATING THE LANOLINE LABEL.—The firm of Benno Jaffé & Darmstädter, of Berlin, have obtained a verdict in a suit brought by them against the house of Grossmann & Co., of Düsseldorf, for imitation of the lanoline trade-mark. The Düsseldorf house, it appears, used a label almost similar to that of the Berlin firm, and replaced the legend "Lanoline toilet-cream" of the genuine article by the words "Lana toilet-cream."

THE following request for the closing of their office on Ash Wednesday was sent in by the clerks of a large public department in India to their chief:—"The functionaries of all other offices on account of Ash Wednesday to-morrow, the 27th instant, are thwarted from doing Government work. We the undersigned clerks also have every reason to believe that your bold pen will make us meet a similar fate. The office work which is on a satisfactory footing *ought not prevent you from closing the office to-morrow*."



## Pharmacy in Jamaica.



WE are indebted to Mr. Albert J. Salmon, Apothecaries Hall, Montego Bay, Jamaica, for the following interesting notes regarding the practice of medicine and pharmacy in Jamaica. In an earlier part of the communication Mr. Salmon speaks of the topography of the island, its marvellous fertility, its medicinal flora

(in general terms), and its great need—enterprise and capital. The population of the island is close upon 650,000.

There are several fine pharmacies ("doctors' shops") in Jamaica, many of them fitted up in the European and American styles, especially those in Kingston. The majority of those in the country are miniature emporiums, as nearly every conceivable article is sold, so as to make up a living turnover. Prior to 1881 there was no pharmacy law, consequently anyone could keep open shop for the sale and compounding of drugs and poisons; and the writer remembers one of these shops, in a populous district of Kingston, carried on by a pretended disciple of Galen, who was just able to sign his name.

### PHARMACY LAW.

In 1881 the "Drugs and Poisons Law" was enacted, which compelled all persons to obtain by examination a licence before they could keep open shop for the sale of drugs and poisons, but no curriculum was enforced, except in the case of apprentices at the public hospital, who were required to undergo three full years' tuition at its dispensing school before presenting themselves for examination.

A new law was enacted last year repealing that of 1881 and its amendment of 1885, and the new Act requires a curriculum of two years, and the second year at least must be under a medical practitioner, or one already licensed. Candidates must be 21 years of age, and must pay a fee of 2*l*. Persons licensed under the Pharmacy Acts of Great Britain and Ireland are exempt from examination, but must produce certificates of qualification, and pay a fee of 2*l*. In the case of anyone requiring a special examination a fee of 5*l*. is demanded. Licensed druggists of other countries are allowed an examination, provided the superintending medical officer is satisfied with the certificates of their curriculum. Anyone licensed under the law is, in case of any conviction as a misdemeanant, liable to have his licence suspended by the superintendent medical officer on the approval of the Governor.

### NATURE OF THE TRADE.

Patent medicines are in great demand, and American and Canadian proprietary medicines are fast becoming the leading ones—such as Scott's Emulsion of Cod-liver Oil, Ayer's Cherry Pectoral, Pills and Sarsaparilla, Bristol's Sarsaparilla, Northrop & Lyman's Vegetable Discovery and Canadian Healing Oil, Perry Davis's Pain Killer, Morse's Indian Root Pills, Ross's Life Pills, American Specific, &c.—simply from the fact that these firms "work up" the country by means of their travelling agents and advertisements.

Druggists, as a rule, do very little dispensing, as the majority of doctors supply their own medicines. A feeling of strong antipathy exists among a large number of the doctors and druggists, on account of the latter carrying on a prescribing business. Druggists are frequently called "doctors," and this seems to be the cause of the bitter feeling on the part of the regular practitioners. The origin of the appellation "doctor" for a druggist is not generally known, but it arose in this way. During the days of slavery, there was scarcely any system of skilled medical aid provided for the slaves; but there was always at hand some intelligent man who was able to administer medicines to the sufferers, practising a recognised empiricism. These persons

were styled "hot-house doctors," and were looked upon by the slaves as great benefactors. The poor creatures not being placed in a position to know the difference between a qualified and an unqualified man got to know no one else but these "doctors," consequently the name has been handed down as a manner of addressing anyone who is publicly recognised as having anything to do with preparing or prescribing medicines. And so it will continue, unless the present generation at school are taught to address druggists differently.

### THE OBEAHMAN.

Apart from prescribing druggists, there is a class of persons who get a good share of patronage from the peasantry—viz., the obeahman, who, to some extent, differs from a "doctorman," another class of practitioners. One who is acquainted with the ways and peculiarities of the Jamaica labouring class can easily spot any of these votaries of the healing art. The obeahman is generally dressed in some quaint garb, carries a peculiarly-shaped stick, which usually has a snake carved around it, and spotted with black, red, and white. In his stock or miniature "curiosity-shop," which he carries in his pockets, are to be found phials containing the mixtures to "pour out his wrath of vengeance" on his client's adversary, and it is in this direction that this protégé of Obi is dangerous, for, by some means which he skilfully contrives, he gives a dose of some potent poison to his client's enemy. A law is strictly enforced for his punishment, which consists of flagellation during incarceration.

Their manner of working is somewhat as follows:—Obadiah (the people are very fond of Biblical names) has a few acres of land, and with hard work he manages to reap a good harvest. This incurs the displeasure of his indigent or lazy neighbour Joshua, who also owns a similar number or more acres of land. A row ensues between both parties, and Joshua threatens Obadiah, "I wi' do fe you" (I will put obeah on you), and perhaps, as a coincidence, Obadiah becomes sick, no doubt from overwork, but instead of consulting a doctor, he goes to the obeahman, to work "tranga (stronger) obeah," who strengthens his belief by agreeing with him. All sorts of evil practices are now brought into play, and either Obadiah, or Joshua, or both, become the constant customers of the druggist by their purchases of ol. origani and ol. succini rect. to sprinkle about their person and habitation, sulphur to fumigate the path supposed to be traversed by the evil spirits sent by the opponents to do harm to each other, cort. cascarillæ to be mixed with tobacco and smoked when alone, especially at nights, a charm of asafetida and garlic worn on the body or kept in the house, and so on.

### THE "DOCTORMAN"

simply tries to earn a living, and if fortune smiles on him in curing a case—e.g., a sore leg—he is looked upon as "him han gree wid hownd" (he is skilful in the treatment of sores). The peasantry call an ulcer a "wound," and a wound is called a "cut." When the "cut" is very severe, it is designated a "murderation." He treats diseases by making a decoction of various herbs, the intrinsic value of which he professes to know, and his supercilious air towards his less favoured brethren favours the deception. Perhaps some great grandmother of his dreamt to him "the night before" that so many leaves of this boiled down and mixed with so many drops of the juice of that would cure the worst case of disease, and so long as he tells his patient that it was prepared by the direction of a dream, the mixture is looked upon and taken with reverence. He also uses the above-mentioned drugs, and invariably calls for such articles, the names of which are not to be found in any pharmaceutical vocabulary. Sometimes it is ile of pippewippee, ile of trent, scorcher, ile of clearance, &c. His treatment for yaws or ringworm is to take the unfortunate sufferer to a running stream, and scrub the affected parts with a corn tick (corn cob), then rub in gunpowder, or laundry blue, and administer his decoctions.

There are some doctresses, too, whose pharmacy is carried on in a modest style; their applications to the druggist are generally made for "dem tings whey (that) you know good fe feba, &c." Their practice is on the lines of the "doctorman."



## BEDWARDITES.

There is yet another class of "practitioners"—the Bedwardites—who practise hydropathy in a peculiar manner. The cure was introduced two or three years ago by an ex-Insane named Bedward. The system is to attribute curative properties to a river. A religious service is held by the "prophet," who declares he is sent by God, and is divinely commanded to cure diseases by means of the river. After preaching and singing of hymns, a procession headed by the "prophet" and numbering hundreds and sometimes thousands, moves on to the "healing stream." The "prophet" blesses the water and commands the afflicted to enter and be washed. Here a disgusting scene takes place. Men, women and children in a state of semi and sometimes complete nudity, and exhibiting all kinds of diseases, plunge into the "water of life" for purification. They are then told to drink the water, which, of course, becomes contaminated to a certain extent with foul matter from the bodies of the bathers. It is necessary that a "white" cup be used to dip up the water, and when the craze is on there is great business done in these cups. It is not uncommon now to hear a "healing-stream bruk out" at such and such a place, and it is safe to conclude that it is only another means adopted by these "prophets" to escape the arm of the law. Bedward carried his religious and hydropathic practices into politics, and is now under arrest awaiting trial for sedition.

## DRASTIC TREATMENT.

The labouring class is not particular about "elegant pharmacy." On the contrary, drugs must have strong odours, and a 10-grain pill is just as pleasant to them as any other of its kind in gelatine or sugar-covering. They generally suffer from biliousness, and it is amusing at times to listen to Keturah saying to Martha, "You know how lang me nebba tek physic?" Whereupon a conversation ensues as to how each one goes through the ordeal of taking "physic." Physic is antibilious medicines, and "medsin" is medicines prescribed, but generally called "dacta medsin." Taking "bilious physic" is a recognised institution among them, and should your servant feel sick, he or she "gwine tap home one week fe tek physic." A shilling is generally sufficient to supply their requirements, and this is the way they go about it:—"Truppance" (or "fipney") (3d.) bilious pill, truppance "antimony wine," truppance "jullup" (if pulv. is required the "dry" is asked for, if "wet" the tincture: all powdered and liquid preparations are designated "dry" and "wet" respectively), "naggin" (or gill) (3d.) salts and "naggin" "sena," tup (1½d.) "nat ile" (crude castor oil, an abominable, nasty, stinking black stuff of a tarry consistence prepared by the peasantry from sem. ricini officin., and which the druggist must keep, as the expressed ol. ricini is very seldom asked for). The *modus operandi* is to clear the "tummuck" of "bwile" by means of the antimonial wine; then take the pills at night; the following morning the oil to "work off" the pills, the same night the jalap to "work off" the oil, the next morning the salts and senna to "work off" the jalap, and if all the "bwile" has not been "worked off" then it is considered as having "broken" in the person. A "truppance calimel" is taken and another dose of oil—sometimes 3 oz. to 4 oz.—to "work off" the calomel, and salts and senna again to "work off" the oil. Your servant, perhaps, is able to crawl out to work the next Monday morning. The cure has lasted a fortnight, and if the patient is still sick it is time to get "dacta medsin." Even this sometimes is considered unsuitable if no purgatives are given. In cases of diarrhoea a request is often made for something to "work it off." Many years ago a famous preparation called

## RISBYS

was popularly used, and is still in demand to some extent by some of the old people. The following is the formula:—

Gum. camph.	..	..	..	..	3j.
" guaiaci	..	..	..	..	5j.
" opii	..	..	..	..	5iss.
Rad. serpentaria	..	..	..	..	vel
Pimenta	..	..	..	..	5ij.
Rad. gent.	..	..	..	..	5iv.
Hydrarg. oxymer. (oechlor.)	..	..	..	..	5ss.
Sp. xaymacensis (sp. tenuior)	..	..	..	..	0j.

Misce.

Dose: 5iv. in Oss. infus. sarsæ bis die.

This preparation, being considered as a powerful alternative, was extensively used as a "cure-all," and many patients got worse from the "month run" (excessive salivation) which it produced. During its administration the patient was commanded not to be seen outdoors after 6 P.M., not to "touch" (eat) salt or salted food, no water but inf. sarsæ to be taken in lieu, the daily ablutions were allowed to a limited extent, but complete immersion of the body was strictly forbidden. The preparing of this "cure-all" was generally relegated to some quaint old woman, whose *modus operandi* was kept an inviolate secret so as to inspire awe in those around her, especially her patient, who would believe that her knowledge of medicine was unquestionable, and the preparation a production of one of the occult sciences.

## Compressed Tablets.

A ZINC SALT has been found in American apple-rings.

THYROID TABLOIDS are now used for curing puerperal mania—and they do it.

THE latest cure for cold in the head is uranium acetate. One grain is mixed with 100 gr. of coffee (or other harmless powder) and used as snuff.

HELIUM was first discovered by Professors Lockyer and E. Frankland twenty-seven years ago in tongues of flaming gas in the solar corona during a total eclipse.

Two years ago a Kansas City druggist was found guilty of selling liquor, but sentence was deferred. The other day he was asked to go into prison for three months, and declined with—an appeal.

THE *British Medical Journal* has recently claimed that Sir Horace Davey discovered the anæsthetic properties of nitrous oxide. Such a delightful slip! What will Lord Davey think of it?

PROFESSOR CHRSHONTSCHESKI writes to the Russian medical paper *Wratsch* in favour of the abolition of pharmacists. Three-quarters of the professor's name might be abolished with advantage.

ADSORPTION is the term applied in chemistry to that curious property in virtue of which the concentration of a solution near the surface of an immersed solid is greater than the average concentration.

THE attempts in U.S.A. to pass laws to compel makers of nostrums to put the formulæ on the labels are said to be ridiculous, because the Courts have held such laws to be unconstitutional, as they are in restraint of trade.

*Citromyces Pfefferianus* and *C. glaber* are the mycodermis which through the fermentation of saccharine solutions make citric acid, thus:— $2C_6H_{12}O_6 + 3O_2 = C_6H_8O_7 + 2H_2O$ . The process is actually worked at Thau and Mulhouse.

AMMONIUM THIOACETATE (30-per-cent. solution) is recommended as a substitute for sulphuretted hydrogen for chemical analysis. It is worth trying, but the mixtures have to be heated to bring the precipitates to sulphides.

MIRRORS are now made (or can be) by pouring upon glass a mixture of ammoniacal silver-nitrate solution and formaldehyde, and allowing it to remain for five minutes at 65° F. Silver is thus deposited on the glass, and is afterwards varnished.

SHOEMAKER'S black wax is a mixture of 50 parts Canada balsam, 46 parts beeswax, 3 parts linseed oil, and 1 part lampblack. So an American paper says. We wish they had tried to make it. The black wax is really a Gallician ozokerite residue.

OVER half a million patents have been granted in the United States, including 1,143 for chemicals, 1,332 for medicines, and 3,335 for surgical appliances. The most inventive department is carriages and waggons (20,096), and the least (bnt yonngest) linotyping (98).

THE telephone has been responsible for a curious error in Connecticut. A prescription for thirty-two pills passed over it, one of the ingredients being "sulph. atropin. grain sixth." The dispenser took it for six. The patient recovered after thirty-six hours of antidotal treatment.



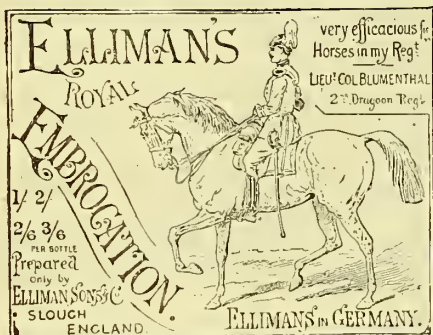
GOLD MEDALS 1884-1885-1886-1888.

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TRADE  
MARK.

"SANITAS" EUCALYPTUS PREPARATIONS.  
Kingzett's Sulphur Candles and Sulphugators,  
Preserved Peroxide of Hydrogen,  
Mercuric Bactericide, Eucalyptus Oils.  
L. G. B. Corrosive Sublimate Pellets; "Creocide" Fluids and Powders  
Carbolic Fluids, Powders and Soaps; Soluble Carbolated Creosote; Weed  
Destroyer, Sheep Dips, &c.

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£5 14 0value,  
assorted or not.10 per cent. Cash,  
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Books,  
Show Cards.ELLIMAN,  
SONS & CO.  
Slough,  
ENGLAND.

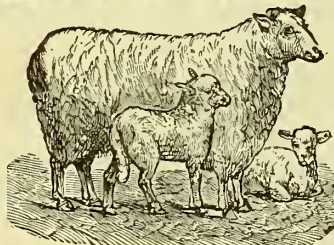
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have been used by almost  
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in Lincolnshire and adjoining  
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SPECIALLY PREPARED FOR CHEMISTS.

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Each Powder weighed by hand and guaranteed. Best folding, best paper.  
A better Powder cannot be produced.

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## PREPARATIONS

SHOULD APPLY TO

## JOHN MOSS & COY.

GALEN WORKS, WILSON STREET, S.E.,

Who always hold a

## LARGE STOCK OF MATURE BARK.

CONDY'S FLUID contains no Permanganate of Potash.

CONDY'S FLUID  
COLOURABLE  
IMITATIONS.*Eleven Injunctions*

With damages and costs have been  
obtained against Chemists selling a  
solution of Permanganate of  
Potash in execution of orders  
for

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67 Turnmill Street, E.C.

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MODERATE INCLUSIVE FEES

SEARCHES. REPORTS. DESIGNS.

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# Van Houten's Cocoa

"A PERFECT BEVERAGE,"  
combining  
"STRENGTH, PURITY, AND  
SOLUBILITY."—Medical Annual.

PURE  
SOLUBLE.EASILY  
DIGESTED.

## ITROSYL

Is always at hand when wanted. Takes up no  
space. Is as valuable to the remotest country or  
colonial druggist as to the West End dispenser.

Fletcher, Fletcher &amp; Co., Holloway, London.

## EARLY CLOSING BY LOCAL OPTION.

WHAT a changed world this would be to some hundreds of  
thousands of our fellow countrymen and countrywomen if  
Sir John Lubbock's Early-closing Bill, or something like it,  
could be carried and brought into effective operation! There  
is absolutely no necessity whatever for the long hours at



present occupied in most shops. There is no reasonable reason why the work of distribution, like that of production or manufacture, should not be performed in eight hours out of the twenty-four. We all believe that, somehow or other, this desirable result will come to pass some time in the next century. The only question is whether it cannot be hurried a bit, so that some of the people now living may get a share of the benefit. Some excellent people, who are as keenly desirous of bringing about shorter shop-hours as Sir John Lubbock himself, think the proper way to secure their objects is to proceed by example and moral suasion. Mr. Frye and Sir J. B. Maple are the most prominent representatives of this view on the Select Committee now sitting on the subject. It can hardly be denied that their policy is the preferable one, if only it would work. But that seems to be exactly the thing it will not do. Voluntary efforts have been proceeding as long as any of us can remember, and there is, perhaps, no one of us who has not had experience of their breakdown. Among the smaller shops it is doubtful whether the hours of closing are any earlier than they were a generation since. Some observers, indeed, say they are later. Meanwhile office hours, warehouse hours, factory hours have all been reduced considerably, and nobody depending on any of these seems to be any the poorer in consequence.

Legislation in regard to early closing would inevitably be a failure if it should turn out to be far in advance of the wishes of shopkeepers themselves. The coercion of any considerable minority in this direction would be both impossible and improper. Sir John Lubbock's Bill proposes to give power to the local authority to enforce earlier closing among the members of any trade on the demand of two-thirds of the members of that trade in a specified locality. Perhaps two-thirds is not a large enough majority—at all events, to begin with. It is open to doubt whether in a town where there are fifteen chemists ten of these should have the power to coerce the other five. But it must be remembered, on the other hand, that at present the five are coercing the ten. Where the line is to be drawn is a delicate question. But we all feel that there should be a limit somewhere to the power of the minority. When the arrangements of fourteen chemists in regard to evening closing or a weekly half-holiday are frustrated by the obstinacy of the fifteenth, the time does seem to have come for something a little more persuasive than voluntary effort.

In order to test the feeling of chemists to some extent in regard to this Bill, we are sending this week to the retail chemists in Birmingham, Brighton, and Liverpool a statement summarising the provisions of the measure, together with a postcard, addressed to ourselves, on which we ask the chemists referred to to vote for or against the principle of the measure. Postcards from any other parts of the country expressing an opinion about the proposal will be welcome, but the towns named have been selected as typical ones, and the vote from them should give a fair idea of the reception which the Bill would have from one of the trades concerned.

It may be of some interest to add that, at the request of Sir John Lubbock, the editor of this paper will attend before his Committee on Friday next, April 26, to give in evidence the result of the vote taken some eight years ago on his previous Bill. On that occasion 10,000 voting-papers were sent out, and 2,227 were returned. Of these 1,330 chemists voted in favour of the Bill, 734 against it, and 163 declared themselves to be neutral. The Bill then under consideration fixed the hour for closing for the whole country, subject to modifications which, under certain circumstances, might be made by the local authority. The Bill now

before Parliament leaves the days and the hours of closing optional, and only permits the enforcement of a chosen hour as regards a particular trade when a local authority shall be satisfied that two-thirds of the members of that trade carrying on business in the locality concerned are in favour of such enforcement.

## COLONIAL CHEMISTS ON ADVERTISING.

OUR 1895 DIARY Competition is now complete, with the publication of the colonial and foreign results in this issue. We confess to a reawakened interest in the nine questions as we glance through the orange and yellow coupons which have been returned to us from all quarters of the globe; indeed, there is more interest in noting how advertisements strike strangers in distant parts than there is in getting a consensus of opinion grown in the uniform environment of our insular home. The largest section of the colonial and foreign coupons is contributed by Australasians, and South Africans also contribute their share, and from Yokohama in the East to Vancouver in the West we have had a searching of the advertisements which cannot fail to be instructive to subscribers and beneficial to advertisers. Comparing the two sets of replies (home with colonial and foreign), we first note the startling unanimity of the vote which places Burroughs, Wellcome & Co. at the head of advertisements which deserve the best results. With the exception of Armbrecht, Nelson & Co., Allen & Hanburys (Limited), and Bowers Brothers none of the firms who were placed in the front in this section by home subscribers get into the running. The Indian vote, with one exception, is cast for the leaders; Yokohama and Shanghai go the same way; the West Indies divide their favours amongst Allen & Hanburys, Burroughs, Wellcome & Co., and John Richardson & Co. (Limited). The European continental vote is much divided; the American and Canadian is for the leaders and May, Roberts & Co.; and two-thirds of the Australians cast their votes towards Snow Hill.

The lesson which we draw from this vote is that illustrations and prices together are the thing which catch the colonial eye. Nothing speaks better, nothing pays better. We have frequently urged this, especially in regard to East Indian trade, and the vote unanimously supports the view, only those firms being mentioned who appeal to the eye as well as to the commercial sense.

The telegraphic-address vote has been a close one, and although it raises "Tom-Tom" from fourth to first place, it practically confirms the judgment of home subscribers. The neck-and-neck race which "Oil of the Night" and "Frog in your Throat" ran in the home competition has been repeated in the foreign section, but this time the oil imps get in ahead of the frog; closely following them are the heron, the coker-nut, the fly cemetery, death jam, and "Camwal"—here, again, a judgment which is very similar to what obtained in the home competition, and the same may be said in regard to the fourth, fifth, sixth, seventh, and eighth questions. We note, however, that Hearon, Squire & Francis, who at home were reckoned second from the artistic point of view, are now an easy first, with Crawshaw & Co., Day & Sons, Burroughs, Wellcome & Co., and Armbrecht, Nelson & Co. following. The answers to the ninth question are the most instructive of all. Beecham's pills are put down as the most popular article, but the vote is more divided than it was at home, and it is cast more sensibly; only advertised or special



articles being mentioned. We name them in the order of voting:—

Beecham's Pills  
Pears' Soap  
Tabloids  
Vaseline  
Kepler  
Vinolia preparations  
Fellows's Syrup  
Kent's Brushes  
Pepsalia  
Allen & Hanburys' specialities  
Bourne & Johnson's Feeders

Antipyrin  
Franz Josef Water  
Buchan's Fly-papers  
Cadbury's Cocoa  
Frog-in-your-Throat  
Holloway's Pills  
Howards' Quinine  
Hubbuck's Oxide of Zinc  
Kemp's Extract of Cascara  
Tasmanian Eucalyptus Oil  
Kangaroo Eucalyptus Oil

The vote is exceedingly diverse, for it must be remembered that we are dealing with the opinions of traders in such varied places as the towns of Australasia and South Africa, where climatic conditions, if not the customers, call for particular popular articles. Then from India we have before us the opinion of chemists in Calcutta, Darjeeling, Madras, Rawul Pindi, St. Thome, and Simla; also from Colombo, Singapore, Yokohama, and Shanghai further East. The West Indies furnish Trinidad and Jamaican votes; British Honduras contributes, so does Argentine; New York, Willard (N.Y.), Dallas (Texas), Niagara, and Vancouver represent North America; while Belgium, France, and Switzerland are represented in the continental coupons, Gibraltar bringing up the rear. We take it that in some of these places Mr. Beecham does not appeal directly to the public, which may account for the fact that only one Indian voter declares Beecham's pills to be the most popular in his business. He is a Rawul Pindi man, but another in the same place neutralises the vote by putting "tabloids" as the most popular thing there. We are rather surprised to note that Kepler preparations occur oftenest in this section of the Ceylon and Indian voting-papers, and, as a contrast, the West Indies make the largest demand for Pears' soap, although vaseline runs it hard. There is nothing distinctive about the European vote, but Gibraltar retains her allegiance to Holloway's pills—a circumstance which those who recollect the immense popularity of this "patent" may connect with the impregnable character of our Mediterranean fortress. It is the Australian vote which fairly turns the balance in favour of Beecham. About half the coupons put the St. Helens pills down as the most popular article of sale, and Pears' soap comes next. It is upon the ninth question that the position on the prize-list has been in a large measure determined, and it accounts for the success of so many Australians. Next year we may delegate the gathering of the Australian vote to our Melbourne colleagues, in order to keep it separate from the votes of other colonies and foreign countries which are not so distinctive in their demands. It is obvious that an extra-Britannic vote is a useful one. It brings us very close to the business-life of chemists in all parts of the world, and we realise at least once a year that in the main the English drug-trade abroad is much the same as at home, and that the fancies and feelings of men who have settled abroad are still home-like. And this sentiment is peculiarly appropriate to-day when we present to many retailers in East, West, and South a budget of home news and advertisements which have been brought together for their benefit particularly.

#### A PETROLEUM ROMANCE.

A SUDDEN fit of wild excitement, such as used to overtake the American petroleum industry in its early days, has again broken out in the United States, with the result that, so far, the price of oil has advanced 170 per cent., in round figures, since the beginning of the year. The Standard Oil Com-

pany, the great American petroleum-syndicate, naturally plays a leading part in the "boom," and it may be safely predicted that, whoever loses in the end, Mr. Rockefeller and his fellow "mammoth-millionaires" of the petroleum-ring will not be among the number. For the moment, as may be seen from the short account of the movement given in our Trade Report, everything looks rosy for the oil-speculators. "The entire Ohio field," says a despatch from Pittsburgh, "is in a state of wild and intense activity, new wells being sunk everywhere. There never was a time in the history of petroleum when speculators were more alert than now. Men are in the field night and day looking for developments. It is estimated that \$6,000,000 are now being expended in new drillings (the cost of drilling a well is from \$1,200 to \$9,000), and the Standard Oil Company are said to have purchased \$3,000,000 worth of territory from individual producers within a few weeks. The pipe mills at Wheeling are working full time, and oil is flowing faster than for years past."

Shortly preceding all this tumult, as though the publishers could have divined the opportune moment, a book has been published in America\* giving, so far as we know, the fullest account yet issued in book form of the history and methods of the Standard Oil Company, the "Trust" which has for years dominated the huge petroleum industry. The book, we believe, originally appeared in serial form in *Harper's Weekly*. The author, Mr. Hy. D. Lloyd, has made the subject of the economic action of Trusts the study of his life. That he is not likely to come to a stop for want of material is evident from the list of existing trade combinations, numbering about 400, published at the end of the book. These include all departments of industrial activity in the States, from pickles and peanuts to playing-cards, dime-museums, and coffins. Financially, the Oil Trust is not the biggest of these concerns. It only controls about \$200,000,000 of capital, while the capital of the "coal combine" runs into \$500,000,000. But the Oil Company, as one of its own spokesmen has said, is "the parent of the Trust system." It is the most successful of all the attempts to put gifts of Nature, entire industries, and world-markets under one hat. According to Mr. Lloyd, who writes, it should be said, as a deadly opponent of all "Trusts," the Standard Oil Company is "the best illustration of a movement which is itself but an illustration of the spirit of the age."

Several years before Colonel Drake, in 1860, first "struck oil" by boring a well in the earth, instead of skimming the surface of the water, and thereby created one of the biggest industries in the world, petroleum had been a commercial product on a small scale. The Scotch distilled it, as they do now, from coal. The French made it in a similar way. Selligie and other chemists had laid the foundations of our knowledge of its practical application. The only impediment was the scarcity of raw material. That Colonel Drake's bore removed. There was no oil monopoly in those early days. "Thousands of derricks," says Mr. Lloyd, "rose all over the territory, and oil scouts pushed with their compasses through the forests of the wilderness in all directions. Wells were bored all over Europe, as well as America, wherever traces of oil showed themselves, sometimes so close together that when one was pumped it would suck air from the other." So abundant was the oil that at one time—in 1862—it sold at 10c. a barrel. The difficulty was to get it removed from the place of production. Then General Karns suggested a pipe-line, thus originating the gigantic system of tubes through which the oil is now pumped from the fields to the

\* "Wealth against Common wealth." By Hy. Demarest Lloyd. Crown 8vo. Pp. 563. Cloth. Harper Brothers, London and New York.



side of the tank-steamer. For five years all went well. There was oil in plenty, and a free sale for the output. Then a blight fell upon the industry. As Mr. Lloyd paradoxically puts it—"Shadows of sunset began to creep over the field in its morning-time." No one knew exactly what was happening, but everywhere the oil producers were being cut out in the market. The oil quotations began to move about in apparent defiance of all commercial principles; refineries were abandoned in all directions. Presently there emerged out of this chaos the "South Improvement Company," a concern consisting of about a dozen men of exceeding business smartness. The South Improvement Company, it was found, had induced the railway companies to give them a secret freight-discount, which in itself enabled the "Improvers" to freeze out all their competitors, in addition to which the railways undertook to play the spy upon all the other refiners and producers and to furnish the Improvement Company with regular returns of their competitors' oil-shipments, the names of the addressees, and so forth. Here, we think, Mr. Lloyd's narrative wants amplification. He does not tell us how the twelve unknown and unimportant men who formed the South Improvement Company came to wield the power of thus forcing railway companies to do their bidding. But, whatever the cause, the South Improvement Company obtained the whip-hand, and they used it ruthlessly to destroy those competitors who refused to sell out to them upon the Improvers' own terms, which were simply nineteenth-century adaptations of the old methods of oppression of merchants. By 1872 its policy had brought the people of Pennsylvania to the brink of revolution, the law was set in motion, and the company ultimately disappeared; only to be followed immediately afterwards by the Standard Oil Company, which, though its managers denied connection with the old concern, pursued, in all essentials, the policy of the South Improvement Company. Space prevents us from giving even a sketch of the history of the Standard Oil Company, as drawn by Mr. Lloyd from official sources, which, if he is correct, reveal a system of trading far from ideal. In spite of all attacks made upon it, in spite of all the lawsuits in which it has been involved, all the congressional and other committees of inquiry that have "sat upon it," the Oil Trust, and the other Trusts, flourish more to-day than they ever did before. All the private individuals who have fought the Oil Trust single-handed, relying merely upon the justice of their cause, have come off second best. "We have ways of making money you know nothing about" is a favourite quotation of the Oil-Trust agents to those whom they want to intimidate into subjection. "This business belongs to us," said the President of the Oil Combination to a small independent refiner who asked him to be allowed to continue his own refinery, which he had carried on many years longer than the Trust itself had existed. "This business belongs to us. Any concern that starts in this business we have sufficient money to lay aside a fund to wipe it out." Mr. Lloyd quotes stories which seem to indicate that in the employment of its money the Trust does not halt at conniving to blow up the works of rivals.

When Russia began to rival the States as a petroleum-producing country it was thought that the end of the American monopoly was near. Quite the reverse. The firm of Rothschild are well known to be interested in the Russian oil-business, and Mr. Lloyd suggests that they are really acting as agents for the American Oil Trust. Certainly that corporation has not become any less dictatorial than formerly. The difficulty is to know how to check the spread of such organisations. Unrestrained competition inevitably results in bringing down the profits to nothing and thus engenders

fresh combinations. The American Congress and individual States have tried time after time to lay the Trust-people by the heels, but the "Big Four," as the Chicago meat-packers are called, and the other offenders snap their fingers at the law. There is an odd story in Mr. Lloyd's book of an American Inland-Revenue officer who was bribed by a whisky-combine to blow up a competing distillery by dynamite. The carrying out of the plan must have involved immense loss of life and property. The evidence against the combine was of the strongest. Yet the managers escaped all punishment.

Mr. Lloyd himself has no real remedy to offer for the evils he describes. Perhaps in the course of time public opinion will find one. Meanwhile, we recommend Mr. Lloyd's book to all interested in economic questions. It is by far the most entertaining work of a commercial nature we have read for a long time.

#### EXTRA-PHARMACOPŒIAS AND PHARMACOPŒIA EXTRAS.

The appearance this week of the eighth edition of Martindale and Westcott's "Extra-Pharmacopœia" has less bibliographic significance than direct incidence upon Pharmacopœia revision, for one of the chief objections which medical critics urge against the British Pharmacopœia is that it is too bulky and does not contain therapeutic references. They would like, in fact, if such a book as the "Extra-Pharmacopœia" were official. Such critics ought not to be taken seriously; but most of them happen to be successful practitioners or prominent men in medicine, and they are regarded seriously by many people. Perhaps Martindale and Westcott's eighth edition may assist in bringing home to them the utter hopelessness of their aspirations. It is not three years since the last edition was published, yet we find that 30 pages of matter have been deleted, and 110 of new matter added. There are few pages of the 580 which have not been altered in some way; references to medical and pharmaceutical literature have been brought up to date; new matter has been incorporated from nine new Pharmacopœias or Formularies, and new remedies still in their infancy have been tenderly cared for. If it were the aim of the authors to supply physicians and pharmacists, particularly the former, with information which the Pharmacopœia does not contain, they could not have succeeded better; if they had attempted a mere commentary upon the B.P., they would not have succeeded so well, for the field was already well occupied.

We have little hesitation in saying that the General Medical Council would fail utterly where Martindale and Westcott have succeeded. It is not in the nature of things that a body of medical gentlemen, charged by the State with certain executive functions, chiefly relating to the qualifications of medical and dental practitioners, should have facilities for writing a popular medico-pharmaceutical book. All that the Legislature requires them to do in regard to the British Pharmacopœia is limited by the Medical Act to

A book containing a list of medicines and compounds, and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matter and things relating thereto as the General Council shall think fit.

Sir Richard Quain maintains that, in spirit at least, this enactment confines the operations of the Medical Council to the bare particulars which will suffice to identify medicines or fit them for administration in a compounded form. The President of the Council certainly has precedent and practice entirely upon his side, for there is no Pharmacopœia in



the world which gives therapeutic notes, or a combination of those features which have made Pharmacopœia commentaries popular. Nor do we think that in the present condition of economics, such incorporated bodies as the General Medical Council should do more as publishers than their executive functions require; and it is clearly not a part of the requirements of the Medical Act to evolve text-books from that body.

The legal incidence of the Pharmacopœia also makes it imperative that it should be confined to approved medicines and those for which standards are necessary. The "Extras" which make such books as Martindale and Westcott's popular happen to be the very things which it is undesirable to officialise. There is, for example, in the new edition a chapter on antitoxins, serums, and lymphs, which is certain to be useful to physicians, for the history of each of these animal medicines is given, and many therapeutic references, but, excepting full details regarding the preparation of such medicaments, we suppose that no one would seriously advocate their introduction into the next edition of the British Pharmacopœia. So also in regard to such things as the "Secondary list of drugs," and many foreign and unofficial preparations which make the "Extra Pharmacopœia" possible, there are none who advocate their introduction into the British Pharmacopœia. In short, the General Medical Council, as the legal authorities for preparing the Pharmacopœia, have their hands full enough in adjusting standards of recognised medicines without venturing into the domains of commentary literature; and both physicians and pharmacists should regard extra-pharmacopœial books as essential if they wish to get into touch with current thought and practice.

### CHINESE AND JAPANESE DRUGS.

AFTER nine months of warfare, peace has been restored between China and Japan. Consideration of the political or the wider economic problems raised by the great changes that have taken place in the Far East since the summer of 1894 lies outside the province of this journal. But, inasmuch as several of our most important drugs are the exclusive produce of the two parties to the treaty of peace which has just been agreed upon, we may legitimately inquire into the effects which the cessation of warlike operations is likely to have upon the commercial position of those articles, chief among which are camphor, musk, rhubarb, nutgalls, Japan wax, oils of cassia, star anise, and Japanese peppermint and menthol.

We quote below the London wholesale prices of a few of these drugs at the beginning of the hostilities and at the present time:—

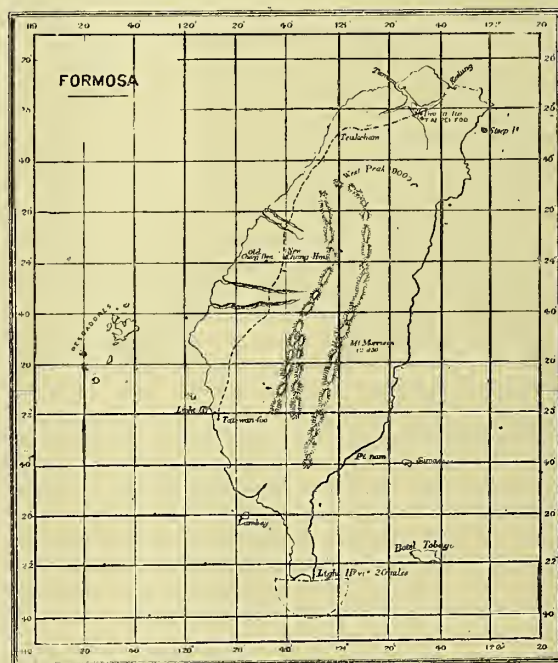
	1894	1895
	s. d.	s. d.
Camphor, Chinese .. .. per cwt.	95 0	117 6
" Japanese .. .. "	105 0	125 0
Star-anise oil .. .. per lb.	6 10	6 3
Cassia oil (good quality) .. .. "	3 3	5 0
Japanese peppermint (demeatholised) .. .. "	10 3	6 6
Menthol .. .. "	16 6	15 6
Chinese galls .. .. per cwt.	44 0	60 0
Japanese wax .. .. "	32 0	27 0

It is difficult to quote a standard price for rhubarb on account of the wide range of quality of that article, but taken all round the drug is certainly several pence per pound cheaper to day than nine months ago. Musk, however, has not inconsiderably advanced.

The prices given above do not, of course, represent all the fluctuations that have taken place in Chinese and Japanese

drugs since last August, but they tend to show that, upon the whole, the war has been without any great disturbing effect upon this particular branch of commerce. Many drug-dealers expected otherwise, and from the beginning of the reports of impending diplomatic rupture between the two countries there have been strong and persistent speculative movements towards higher rates in the more important drugs. But the fact that business intercourse between the two nations at war and the outside world went on much as before, the whole of the Chinese trade being carried on from practically neutral ports under non-combatant flags, and the Japanese ports never having been in serious danger, soon dispelled any lingering expectations that the war might stop or diminish the flow of Eastern produce. The Chinese essential oils, rhubarb, musk, and the bulk of the gall-nuts are brought into commerce by way of the Treaty Ports of Southern China, many hundreds of miles from the scene of hostilities. Probably not one out of fifty of the Chinamen through whose hands these goods passed knew or cared anything about the military collapse of his country going on in the north. It is true that at different times several of the drugs mentioned have been excited, and temporarily scarce and dear, but in nearly all cases the advances were quite unconnected with the war. Thus, in the late autumn, the price of anise oil was run up about 80 per cent. on account of the foundering of a steamer carrying a considerable supply; later on an active speculation took place in menthol and Japanese peppermint oil, also owing to temporary scarcity; and quite lately alarmist crop-reports have been responsible for a smart advance in Chinese nutgalls.

The only important drug which has really, to some extent, moved in sympathy with the war-news has been camphor. It is not impossible that the quotations for this



drug may be permanently affected by the terms of peace, which include the cession to Japan of the island of Formosa, where practically all the Chinese camphor of commerce is produced. Formosa, it may not be superfluous to point out, is an island about half the size of Ireland, situated opposite the south-eastern provinces of China, from which it is separated by a broad channel. It is extremely fertile,



and, next to tea and sugar, camphor is its most valuable product. The camphor-forests are principally situated in the northern and eastern portions of the island, which are inhabited by a race of savages whom the Chinese have never been able completely to subdue. Hence the work of camphor-distilling has been so dangerous that the exports have only amounted to a small part of the figure they could have reached under more settled conditions. In the course of the last few years, however, they have, nevertheless, greatly increased, and are now rather larger than the total exports of the drug from Japan. In 1893 32,134 cwt. of camphor were shipped from the port of Tamsui in the north, and 7,530 cwt. from the port of Tainan in the south of Formosa. This is to some extent due to the better shipping facilities. A railway, shown on our map in a dotted line, has recently been begun in the island, but the exactions of Chinese officialism have always hampered the development of trade very greatly. Under Japanese rule it is certain that, if the trade is kept to itself, the camphor-supplies from Formosa will increase very greatly in the course of the next few years, and we may then anticipate a reign of low prices as a natural consequence. But it is not impossible that Japan, which now controls the bulk of the camphor-supply, may restrict the output by means of an export-duty or by other measures, and such a step would, indeed, under the circumstances be a very wise one. There is said to be a large supply of camphor-trees in two or three of the southern provinces of China; but it does not appear to have been exploited commercially to any great extent in recent times, and it would probably be quite possible for the Japanese to restrict the output of camphor considerably without provoking serious competition from this source. Another matter in connection with the conclusion of peace which is likely to have some effect upon certain crude drugs is the provision for the payment, by China, of a heavy war-indemnity in silver. The price of silver has already been advancing for a considerable time, partly in anticipation of the demand for such a purpose, and it is not unlikely to rise further. The natural consequence of this will be to increase the cost of output of the produce of all silver-standard countries, such as India and the Far East, and, therefore, the price of those commodities. There is, however, such a plentiful known supply of silver in the earth, much of which could be profitably mined as soon as the value of the metal rises a little above the present quotation, that no very considerable or permanent advance can be expected.

Finally, the opening of several more Chinese ports to international commerce, and especially the expected facilitation of the introduction of machinery and improvement of communication in that Empire, will probably, for a time, stimulate the exportation of all kinds of European products, and, of course, increase the output of Chinese goods. Whether, in the long run, Europe will benefit by the change is another question. The Japanese enjoy so many advantages in the competition for the Chinese trade that they may not improbably take a great part of Chinese business out of the hands of Europeans. The trade in medicines and technical chemicals with China is considered capable of enormous increase, but the Japanese are no mean adepts at chemistry; and we may expect that, in a few years, a large portion of pharmaceutical goods now imported from Europe will be made in Japan or under Japanese supervision in China, and thereby the door shut in the face of the European manufacturers. We have reason to believe that at the present time large stocks of drugs and other goods are being purchased in Europe on Japanese account. This will probably last for some time, but the tendency may be towards restriction later on. Home manufacturers should,

therefore, make haste to reap their commercial benefit while there is yet time.

#### MORE ABOUT HELIUM AND ARGON.

At the meeting of the Academy of Science (Paris), on Monday, M. Berthelot, the Perpetual Secretary, read a communication from M. Cléve, of Upsala, after whom the mineral cléveite is named, stating that he has repeated Professor Ramsay's experiments, and finds that some samples of the cléveite yield pure helium. He has separated the gas and identified it. M. Cléve does not dispute the accuracy of Professor Ramsay's conclusions, but points out that some samples of the mineral contain nitrogen mainly, as Hillebrand discovered, and some argon and helium, as Ramsay determined. The communication did not give the characteristics of pure helium further than what is at present on record. M. Berthelot added some remarks upon his investigation on the spectrum of the peculiar fluorescence which he observed when sparking argon with benzene-vapour. He has now fixed the lines observed—viz., one 579 in the yellow, a second 547 in the green, and a third 438 in the violet. He is continuing the investigation.

#### THE MEDICAL REGISTER.

There are now 32,637 persons registered in the United Kingdom as medical practitioners, 1,426 having qualified in 1894, and this is exactly the average for the last five years. It seems probable that the number of additions will, owing to the influence of the five-years' curriculum, come down to a thousand; but as the average annual removals from the register are less than that (664 for the past five years), we may take it that the medical profession is a growing one. We note that of the above 1,426, English medical schools supplied 714, Scotch schools 560, and Irish schools 152, a falling-off in each case; but the loss to Ireland and the growth of medical education in Scotland is particularly noteworthy. The following are the average numbers of practitioners registered in the respective countries during the periods mentioned:—

	England	Scotland	Ireland
Last nineteen years ..	684	376	199
Last five years ..	711	549	167

Ireland's best year was 1887, when there were 311 registered there, and that was also England's best—792. Scotland reached her maximum in 1893, when 638 practitioners were registered there. There is no question that Scotland's greatest advantage is in her teaching universities. Apart altogether from considerations of education, the students of these universities have the satisfaction of knowing that when they graduate they can use the courtesy title, "Dr.," and this in the medical profession has advantages far beyond any string of titles that a man may append to his name.

#### THE CASE OF MR. CHARLES LEDGER.

The *Handelsblad* of Amsterdam, one of the leading daily papers in Holland, has taken up our appeal on behalf of Mr. Charles Ledger, the cinchona-pioneer. In an editorial article in its issue of April 13, the *Handelsblad* takes for its text our assertion that "sentiment counts for something in the government of the world," and bases upon it an appeal to the Dutch Government to allow Mr. Ledger a pension of 100*l.* a year. We shall be agreeably surprised if this appeal should be responded to. To agree to it would certainly be an act of generosity on the part of the Dutch Government, which would put our own India Office to shame, and a mark of broadmindedness such as few nations show in the case of individuals not connected with ruling families. In presenting its case for Mr. Ledger, the *Handelsblad* gives a short account of cinchona-cultivation in Java, and expresses the belief that a proposal, on behalf of the Ministry of the Colonies, to give Mr. Ledger 100*l.* a year would be accepted by the Dutch parliament.



## Legal Report.

### DEFICIENT LIQUOR IODI.

ON Thursday, at North London Police Court, before Mr. Lane, Q.C., Mr. John Dwyer, twenty-five years a member of the Pharmaceutical Society, of 128 Ball's Pond Road, was summoned for selling liq. iodi which showed a deficiency of 45.2 per cent. of iodine and a slight deficiency of potassium iodide. Mr. Yelverton was counsel for the defence, and made a preliminary objection to the summons, which alleged that the defendant had sold "an article of food"—viz., liquor iodi, which everybody knew was not a food; and, further, that there was the very indefinite charge of "a slight deficiency in potassium iodide." Mr. Lane: Perhaps they will say nothing about that. Mr. Hoare (who appeared for the prosecutors, the Islington Vestry) said the potassium iodide was not the active principle, it was only the solvent. Mr. Lane: Then we will strike it out. Mr. Yelverton: And our whole defence to this is that time was not given for the iodine to dissolve. Charles Lawrence, an inspector under the Food and Drugs Act, in the employ of the Islington Vestry, said that on March 14 last he visited the shop of the defendant, and handed him a prescription, which was for solution of iodine, 6 oz. This was for external treatment. Mr. Dwyer asked him if he would wait, and he (witness) said he would call back in about a quarter of an hour, when he got the bottle, and paid 2s. for it. He then informed Mr. Dwyer that he was an inspector, and had made the purchase for the purposes of analysis. Mr. Dwyer then told him that he had made up the iodine specially for him, and it was not properly dissolved. He (witness) said he would tell this to the Medical Officer, for whom he had made the purchase, and then proceeded to divide the 6 oz into three parts, leaving one with the defendant and taking two away, one of which was submitted to the public analyst. The certificate showed the deficiency as stated. In cross-examination the witness denied going into the defendant's shop and saying he was in a hurry and wanted the prescription at once; and he did not do the same in the case of Mr. Felton, who was at this court last week. Did not know that there was a residuum at the bottom of the 6-oz. bottle. Mr. Dwyer did not tell him that shaking the bottle was not sufficient to dissolve the stuff, and did not snatch the bottle away from him, and proceed to divide the contents. Did take away the 6-oz. bottle, and that had been under lock and key ever since.

Dr. Alfred Harris, Medical Officer of Health for Islington, was called and said it would only take ten minutes or a quarter of an hour to properly prepare the prescription. It only needed the iodine and potassium iodide to be covered with water, and left for ten minutes.

The defendant was called, and said that though more than twenty years in business, he had never been charged with any offence before. When the man came with the prescription he (witness) asked him if he would wait. The man said, "Yes, outside." He (witness) made his preliminary preparations, such as writing the man's name and address, and copying the prescription; then he got the quantities from the Pharmacopœia, and proceeded to dispense it. The man came back and waited until the stuff was put into the bottle. Then he said he had come from the public analyst, and opened a bag and took from it three 2 oz. bottles. He (witness) told him it was of no use pouring it into these bottles, as it would take hours to properly dissolve. Mr. Lane: Hours! Why, the medical officer says it would only take minutes. Mr. Dwyer: I say it will take hours to properly dissolve it. As the man got it it was only distilled water with the iodine and potash in it. I have been in the business nearly thirty years, and have never before sold liquor iodi. It was generally the tincture of iodine. Mr. Lane looked at what was left in the 6-oz. bottle, and asked Dr. Harris if he thought it was possible to analyse what was there? Dr. Harris thought it was possible, but by the colour of the stuff he did not think it would show a very good result. Mr. Dwyer said he did not think so either, because from the fact of the 6-oz. bottle having been knocking about the Vestry Hall for several weeks without being sealed, the active ingredient would evaporate. He

said some of the crystals were left in the 6-oz. bottle after the 2-oz. bottle had been filled, but they were not there now. Mr. Hoare: Do you allege that they have been removed? Mr. Dwyer: No. But they have evaporated, through the cork being unsealed. Mr. Lane said that with this conflict of testimony he could not say he was sufficiently satisfied to convict. With no chemical knowledge, he could not say which of the witnesses was correct. One said it would take minutes to dissolve, and the other that it would take hours. Mr. Hoare (quoting from Squire's "Companion to the Pharmacopœia") said that if the iodine and potassium were simply covered with distilled water it would dissolve much more quickly than if covered with the full quantity of water. Mr. Yelverton: The full quantity of water was added here. Mr. Dwyer: And I repeat that, under the circumstances, it would take hours to properly dissolve. Mr. Hoare suggested that the third portion of the sample and the portion remaining in the 6-oz. bottle be submitted to the Somerset House authorities. Mr. Yelverton was not favourable to this, because of the volatile character of the drug. Mr. Lane said it would be more satisfactory if there was an adjournment. Subsequently, however, Mr. Yelverton returned to court, and said he had consulted with the prosecution, and, in order to save further expense, had agreed to a nominal fine of 1s., and to pay five guineas expenses, which would be cheaper than another analysis, &c. Mr. Lane: Well, be it so; but I must say that if the case set up in the box be correct, he certainly does not do much credit to his reputation by consenting to the conviction.

## Deaths.

ASTIN.—At 40 Beech Street, Accrington, on April 7, Mr. Edward Astin, chemist and druggist. Aged 58. Mr. Astin had been in business in Abbey Street, Accrington, for thirty years, and was one of the most popular men of the town.

DARLINGTON.—On April 8, at 283 London Road, Sheffield, the beloved wife of Clement Darlington. Aged 34.

FORSYTH.—On Good Friday, at Smalley, Derbyshire, Dr. Thurstan Forsyth. Aged 55. Deceased was a pupil at the North Staffordshire Infirmary, and subsequently commenced business as a chemist and druggist at Bolton. In 1864 Mr. Forsyth proceeded to Dublin, and qualified as a licentiate in midwifery. His business as a prescribing chemist became extensive; and ultimately he studied at the Sheffield School of Medicine, and in 1871 qualified as L.R.C.P.E. and L.S.A. Lond.

MEYER.—The death is reported of Professor Lothar Meyer, at the University of Tübingen, in his 63rd year. Professor Meyer's name is best known in the domain of chemical physics. He contributed important developments to the periodic law, and with Mendeléeff and Newlands has the credit of bringing that law to the notice of the chemical world. He was the author of "Modernen Theorien der Chemie," and his influence as a teacher of chemistry and chemical methods has been particularly notable.

PIPER.—On April 11, subsequent to an operation, Mr. Charles D. Piper, of Fore Street Hill, Exeter, for many years manager of the chemical-department in the firm of Evans, Gadd & Co. Mr. Piper was born in 1819 at Sidmouth, where he served his apprenticeship to a chemist. In 1844 he entered the wholesale drug-firm of Alfred Evans & Co. (now Evans, Gadd & Co.), and he had, therefore, been with the firm for fifty-one years. Mr. Piper was a very active man, and always enjoyed excellent health up to within a few days of his death. His wife died two years since. He leaves three sons and five daughters.

SEABURY.—We regret to learn from the American papers of the death of Mrs. Ella G. Seabury, wife of George J. Seabury, of Seabury & Johnson. Mrs. Seabury, with her two daughters, spent a summer in Europe three years ago, and made many friends. She died of pneumonia, in the 42nd year of her age. Mrs. Seabury had made herself dear to the population in the neighbourhood of her country home, Llewellyn Park, Orange, N.J., and her kindly face was familiar to the workers in the Seabury factory at East Orange.



# Constructive Criticism of the British Pharmacopœia.

## VI.—TINCTURES.

By E. H. FARR AND R. WRIGHT,

*Pharmaceutical Chemists.*

A CONSIDERABLE proportion of the discussion at present agitating the minds of medical men and pharmacists with regard to Pharmacopœia revision has ranged round the question of the advisability, or otherwise, of retaining in the forthcoming Pharmacopœia certain of the galenical preparations included in the present one. And so critical and exhaustive does the discussion upon the subject promise to become, that it is safe to predict that the advent of the new Pharmacopœia will witness a considerable weeding out both of those preparations which have fallen into disrepute or disuse, and also of some others which, although perhaps still employed by members of the medical profession in certain localities, can put forth no adequate claim to represent with any degree of precision the drugs from which they have been prepared.

But whatever effect the present deluge of criticism may produce in the partial or entire obliteration of many of those groups of preparations which might be considered, by reason of ancient usage and custom as having fair claim to be termed "landmarks" in pharmacy, it does not need any prophetic gift to enable us to predict that the group of preparations included under the head of tinctures will long remain, and that they will at least be among the number of those which "linger last" upon the scene.

And the reason is not far to seek. For if it be true, as we have always maintained, that no pharmaceutical preparation can claim to represent a drug unless it contain the active principles of that drug in the same state of combination in which they exist in the drug itself, and that the value of any drug preparation should be decided by the degree in which it conforms to this standard, there is assured for tinctures a permanent position in the very front rank of pharmaceutical products.

It is not our business in this article to draw invidious comparisons between tinctures and other similar classes of galenicals; but whilst the value of aqueous extraction in certain cases is fully admitted, there is no doubt that, generally speaking, tinctures possess distinct advantages over preparations so made, as far as constancy of strength and stability are concerned. This is attributable to the fact that alcohol possesses the two cardinal requisites of remarkable solvent and preservative properties—in fact, there are very few drugs in the *materia medica* from which by suitable treatment with diluted alcohol of the proper strength a typical pharmaceutical preparation may not be produced.

On reference to the 1885 Pharmacopœia we find contained therein 28 infusions and 75 tinctures. On further comparison it will be found that 22 of the drugs, the infusions of which are official, are also represented by an official tincture.

There is little doubt that in many of these cases no such double-barrelled arrangement is needed; and it is equally certain that in these and some other cases, by judicious treatment and the adaptation of the strength of the menstruum to the character of the drug operated upon, an ideal preparation may be obtained.

It is quite possible, indeed, that, so far as the ordinary infusions and decoctions are concerned, every needful purpose would be served by inserting in the official text-book

one typical process for each class, leaving it to the physician in prescribing to indicate the strength he wishes the preparation to be made, and to the pharmacist in dispensing to take the official process as his guide.

But how is the ideal preparation, representing all the activity of the drug, to be obtained?

It is obvious that the practical difficulties in the way of the attainment of this ideal are connected with the questions of strength of menstruum, degree of division of the drug, and the process best adapted for securing perfect exhaustion.

With regard to the first of these questions, the system which finds its exemplification in the Pharmacopœia leaves much to be desired.

The principle hitherto followed has apparently been to employ a strongly alcoholic menstruum for resinous drugs, and in other cases to fall back upon the weaker spirit.

It is evident that any attempt to improve upon this system must be the outcome of direct and careful experiment with the object of ascertaining the strength of menstruum best adapted to the peculiar character of each individual drug.

We have conjointly carried out some experiments in this direction, and the results have been published in a series of notes on the subject. The work done on drugs other than those containing alkaloids has been of a more or less tentative character, but in the case of alkaloidal drugs we have studied the subject more thoroughly.

The results obtained point to the conclusion that all the requirements of pharmacy would be met by the employment of menstrua containing 80, 70, 60, 50, and 40 per cent. alcohol by volume.

As a general rule, a 50-per-cent. menstruum is best adapted for the preparation of leaf-tinctures, 70-per-cent. for roots and barks, and 80-per-cent. for resinous substances.

Upon the subject of the proper state of division in which to employ drugs for tinctures, evidence is afforded in the present Pharmacopœia of the fact that much time and attention must have been devoted to the question by those responsible for its production.

Certain general principles may easily be laid down. For instance, it is self-evident that a drug for extraction with strong alcohol should be in fine (No. 60 or No. 80) powder.

Also that in endeavouring to secure the exhaustion of fruits like colchicum, stramonium, and hemlock, a fine degree of comminution is both unnecessary and undesirable; unnecessary, because the active principles are readily extracted; and undesirable, because the sole result of employing the finely-powdered fruits is to overload the tincture with useless extractive and objectionable oily matter. Leaves should not be in so fine a state of disintegration as roots and barks.

In all cases where the drugs cannot be reduced to a uniform powder a process of simple maceration and expression should be followed.

It is difficult to see the advantage of percolation in the case of tinctures like those of calumba, capsicum, gentian, hops, saffron, and senna. Certainly a better result might be



obtained by simple maceration with the whole of the menstruum.

A considerable amount of discussion has taken place upon the subject of the strength and dosage of many of the pharmacopœial tinctures.

From the side of the pharmacist there comes a demand for greater uniformity in the proportion of drug to solvent; while at the other end of the line the physician is asking whether it might not be possible to introduce greater uniformity into the system of dosage. Both these demands may be urged with some show of plausibility, especially by those taking up the position of advocates, but it is possible that both may present difficulties in the carrying out which do not all lie upon the surface; and it is certain that both cannot be acceded to.

Much may be said from the standpoint of the prescriber and medical student for uniformity in the dose of the poisonous tinctures.

It would appear from reference to the doses of the more powerful tinctures in the Pharmacopœia that some attempt at uniformity has already been made, seeing that the minimum dose of about half these tinctures is the same.

In the scale of doses it would perhaps be futile to expect uniformity seeing that the range of dosage above a fixed minimum or below a fixed maximum would doubtless vary in the case of different drugs. And this question of doses should only be considered in subservience to the larger and more important question of standardisation, and should be ruled by it.

On the other hand, it would be an advantage to the pharmaceutical student if the ratio of drug to menstruum were made as simple and uniform as possible—say, 1 in 5, 1 in 8, or 1 in 10. But while it is desirable to observe every possible means of securing uniformity in this and other directions, supreme regard should always be had to the permanence of the finished product.

The proportion of drug to solvent should not be greater than the latter is readily capable of exhausting, and every precaution should be taken to ensure that the principles extracted are distributed through such a volume of solvent as may be taken to secure the stability of the resulting preparation. Probably in no case would a 1-in-10 tincture be found impracticable from the pharmaceutical standpoint, though here the question of dosage would have to be considered, particularly in the case of powerful tinctures, the dose of which may be already small.

As to the processes best adapted for the preparation of tinctures, the results of our investigation on the subject go to show that, on the whole, the process of continuous percolation is the most reliable.

The advantage of this method is that provided the same conditions be observed as regards quality and quantity of the drug operated upon; degree of comminution, strength of menstruum, and volume of percolate collected, it leaves less room for error, and variability in the strength of the finished product than any other, seeing that perfect exhaustion of the drug can always readily be effected.

The question of the standardisation of tinctures other than those of cinchona, opium, and nux vomica, has been freely discussed in the columns of both medical and pharmaceutical journals, and it is anticipated by pharmacists that the principle already applied in the cases named will be further extended and developed in the next issue of the Pharmacopœia.

There are perhaps few drugs the tinctures of which could be submitted to any reliable plan of standardisation except those which contain alkaloids or other well-defined principles capable of ready isolation and identification.

It might, however, be found that the proportion of matter extractable from certain other drugs by alcohol of a given strength was fairly constant, and if this proved to be the case some slight attempt at uniformity might be made by fixing for the corresponding tinctures a minimum standard of extract to be yielded by a given volume of the tincture when evaporated, and the residue dried at a fixed temperature.

In attempting to carry out any further scheme of standardisation, it is desirable both to have a definite idea of the object to be aimed at, and also of the principles which should guide us in seeking the accomplishment of that object.

A typical standard preparation is one which reaches a fixed and exact standard, both as regards active principle and physiological activity. It may be said to possess a fixed constant of strength in both these directions.

Tried by this criterion it may safely be affirmed that in no case can a galenical preparation attain to this high position.

The nearest approach to the ideal would be found in the case of a drug like belladonna, which contains two isomeric alkaloids—atropine and hyoscyamine—possessing similar physiological properties. But this might almost be taken as the proverbial exception which goes to prove the rule, for even in the case of the tinctures and fluid extracts which are already submitted to a process of standardisation no pharmacist of experience would think of contending that exact uniformity of clinical activity had been obtained, in view of the now generally accepted fact that the action of the morphine in opium, quinine in cinchona, and strychnine in nux vomica are all checked and modified by the other constituents of these drugs. But if it be admitted that a tincture should aim at representing in its entirety the drug from which it has been made, with all its properties, and should contain the active principles in the condition, and as far as possible in the proportion, in which they exist naturally, then all that may be needed is the fixing of such a minimum allowable standard of active constituents as may afford a reasonable guarantee of clinical and therapeutic efficiency.

Possibly in most cases this is all that can be secured; from the standpoint of the medical practitioner it may be all that appears desirable.

The fact that the chemistry of many drugs, the physiological activity of which is known to be due to alkaloids or other well-defined active principles, has not been thoroughly worked out, and that, therefore, it is not known to which of these principles the medicinal property is attributable, may seem to some an argument against attempting the standardisation of preparations of these drugs. It appears to us, however, that the true principle upon which to proceed in such cases as these is to carry standardisation up to the limits of the knowledge actually possessed with regard to their active constituents.

Upon this principle, where the activity of a drug is admittedly due to the alkaloids it contains, a standard (if only a minimum allowable standard) of total alkaloid might be authoritatively fixed, based upon the average yield of ten or a dozen authentic samples of the drug, and such a course of procedure would afford every guarantee which could reasonably be demanded.

It should, of course, be distinctly understood that standards of this character are merely provisional, and that they would be liable to alteration and revision with the acquisition of more precise and definite knowledge of the chemistry of the drugs in question.

It may be suggested that every requirement would be met by fixing a definite standard of strength for the drugs them-



selves; but, apart from the difficulty experienced in obtaining drugs of constant strength, it has been shown that the employment of standardised drugs does not always ensure uniformity in the strength of the tinctures prepared therefrom.

It is encouraging to those who favour standardisation on similar lines to those here laid down to note that in taking part in the discussion upon a paper by Mr. R. A. Cripps on "Standardised Preparations of Belladonna," read at the last evening meeting of the Pharmaceutical Society, Dr. Attfield, the official reporter to the Medical Council, spoke very hopefully of the prospect of applying the principle of standardisation in the next Pharmacopœia to preparations of hemlock, henbane, stramonium, jalap, belladonna, and ipecacuanha. We would venture to suggest the addition to the list of preparations of at least two other drugs—viz., jaborandi and lobelia—as being perfectly feasible, and easy of accomplishment.

Meanwhile, there are many other drugs and galenical preparations which should be made the subject of special investigation with a view to bringing them under pharmaceutical control.

It surely reflects little credit upon pharmacists that so little has hitherto been done to secure the great desideratum of constancy of strength in the preparations of potent drugs like aconite, digitalis, gelsemium, colchicum, and others.

The question as to whether every preparation should be made and standardised *per se*, or prepared from a standardised extract, liquid or solid, is one open for discussion. After considering the question in all its bearings, we have come to the conclusion that, on the whole, it is desirable that the principle should be applied to each preparation as an individual, wherever possible.

The final point to consider is as to whether any, and if so, what, characters and tests should be applied to official tinctures.

Seeing that the Pharmacopœia is the official standard and guide for the public analyst, and the book of reference in cases of prosecution under the Sale of Food and Drugs Acts, it is of the utmost importance that all possible information should be there given with regard to the preparations therein contained.

The average specific gravity of each tincture might certainly be given, or a maximum limit fixed for each.

In some cases an "irreducible minimum" of extract dried at a stated temperature might be laid down.

The application of the principle of standardisation should be further extended and developed.

In the last edition of the Swiss Pharmacopœia, methods are described for the isolation of the crude principles from some of the tinctures, and directions given for applying certain tests for their recognition. In some cases these are apparently of little value, but in others they might be of service.

We have purposely avoided giving *data* in this note; but it is right to say that, where we have come to definite conclusions, we have experimental evidence to support our statements. It is not, however, necessary to give in this series of articles those minutiae which only serve to illustrate general principles, and consequently these data are for the present withheld.

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MODERN HUMOUR.—(Scene: the precincts of a lecture-theatre after a lecture on theoretical chemistry.) Mary: "And what brings you this way?" Thomas: "Oh; me motive power. No, beg pardon, Molly cular attraction of course! And you?" Mary: "Atomic attraction of course. Now we're quits."

## Reviews and Literary Notes.

*Chemical Analysis of Oils, Fats, Waxes, and of Commercial Products Derived Therefrom.* From the German of Professor R. Benedikt. Translated, revised and enlarged by Dr. J. Lewkowitsch. London, 1895: Macmillan & Co. Crown 8vo. Pp. xviii and 683. 21s net.

THE appearance of this work, so soon after that of the late Dr. C. R. Alder Wright's, might at first sight seem almost unnecessary; but the recent additions to our knowledge of chemical processes, as applied to the oils and their allies, have made plenty of room for the two books. In addition, whilst Dr. Wright's book was written especially for the technologist, the present work is adapted entirely to meet the needs of the analyst. Although nominally by Benedikt and Lewkowitsch, it is in reality Benedikt's German edition, translated and remodelled and enlarged by Lewkowitsch, whose name is a guarantee of its high value. The book is divided into sections, which deal with the various products from almost all their scientific aspects. It is evident that no pains have been spared to keep it up to date, and papers of 1894 are well in evidence. The authors have also recognised the necessity for treating everything scientifically, and we find them insisting on the discussion of Japan wax as a fat, and of sperm oil as a wax—which, from a chemical point of view, is, of course, accurate. The latest views as to the peculiar characters of the ricin oleic acids have not been passed over, and the aid of stereo-chemistry is here invoked. It is noteworthy that throughout the whole of the work much credit is given to English chemists, as Allen, Hohner, Archbut, Thompson, and others are quoted as authorities for much of the useful material. The saponification of oils is expressed quantitatively by the equivalent of the German "seifungs-zahl," or milligrammes of potash used per gramme of oil, to the exclusion of Allen's "saponification equivalent." The decimal place might have been moved, and we should have then had all these important figures in absolute percentages of potash, which is, after all, the most logical method of expression. The still mysterious, though useful, process of iodine-absorption is well discussed, and the small amount of real knowledge we possess of the process is well shown by the authors' work on unsaturated compounds of known composition. In scarcely any case was taken up the amount of iodine calculated on the theory of addition products. The need for further work in many directions is made apparent by the sparse information the authors have been able to collect for some oils, which are not so well known as others, and the difficulty of the subject is made very apparent in the case of sperm oil, where the constants quoted for this oil and doegling oil are practically identical. The chapter on butter-analysis is specially useful, and is as comprehensive as is necessary for the purpose for which the book is written. Some valuable points are raised in connection with beeswax, the literature of which is admirably collected. The effects which the bleaching of wax has on its analytical figures are discussed, and analyses of waxes before and after bleaching give some striking results. The synopsis of the deductions to be drawn in the case of adulterated samples of this substance is very useful and clear. The analysis of soap is described concisely and without wasting space in discussing too much detail. We cannot pass over without comment the opening chapter on the systematic examination of oils. The authors are here admirably candid, and say that it is not easy in any case, nor possible in many, to even detect all the oils in a mixture of three or more fatty oils. Such, at least, is the substance of their remarks. They further urge the analyst to use common sense in the matter, pointing out that the price of oils at any given time will be a material assistance to a correct analysis. All who know the technical difficulties of oil-analysis will at once admit the force of these remarks, but all are not honest enough to own them. We commend this book with perfect confidence to the analyst, the technologist, the pharmacist, or, indeed, to all who have any interest in the scientific aspect of the oil question.

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WE understand that the first edition of Mr. Thos. Farrow's *The Money-lender Unmasked* was sold out



within a month of its publication. A second edition, in which the "introductory" section has been revised and enlarged by the author, is now in the course of publication.

DR. SQUIBB, of Brooklyn, sends us a fresh part of *Ephemeris*, in which he reprints a paper on the progress of new remedies, an interesting account of a research on the manufacture and chemical properties of acetone, and some correspondence he has had with the U.S. Treasury with regard to the use of "free" alcohol in the preparation of medicines.

Two admirable maps—one of South Africa, and the other of the Australasian Colonies, with much information as to the newspaper-advertising facilities in those parts of the world—have lately been published by Messrs. C. Mitchell & Co., of Red Lion Court, advertising agents, for the use of their clients. The maps are very clear, and convey a great deal of useful commercial information in regard to railways, cable routes, postal rates, &c. They are supplied at 1s. each, or on canvas, with rollers, at 5s. each.

AMERICAN fondness for big books is almost proverbial. Another instance of it is provided in the announcement by Messrs. Wm. Wood & Co., of New York, of the publication of a work on medicine entitled *The Twentieth Century Practice*. It is to be an international cyclopædia of modern medical science by leading authors of the United States and Europe, and it is proposed to issue the work in twenty octavo volumes, each containing 700 to 800 pages. It is intended to complete the work about the close of 1899. Why not 1900?

MR. EFFINGHAM WILSON has added to his series of Legal Handy Books a useful *Treatise on the Law Relating to the Validity of Contracts in Restraint of Trade*, by W. Arnold Jolly, B.A. (1s. net). The gradual evolution of the views of the judges in regard to contracts, limiting the right of an assistant to go into business, or of a similar character, is interesting, and is clearly set forth in this little manual. The consideration of public policy is the ground on which such contracts are sometimes pronounced invalid, and the distinctions between valid and invalid contracts are often very fine.

AN excellent monograph on the late Professor Flückiger, illustrated by an equally admirable portrait of the deceased scientist, occupies 46 pages of the last number of the *Berichte of the German Pharmaceutische Gesellschaft*. It is written by Dr. A. Tschirch, of Berne, an intimate friend of Flückiger. Dr. Tschirch points out that Flückiger was the first scientist who recognised the immense importance of History and Geography as aids to pharmacognosy. Flückiger's great linguistic talents (he could speak and write English, French, and Italian, besides his native German) assisted him in forming a network of correspondence all over the world, which he utilised to great advantage in his writings. Flückiger's connection with Daniel Hanbury began in 1864, but consisted in intermittent correspondence until 1867, when he accepted Hanbury's invitation to visit him in London. On that occasion "Pharmacographia" was planned, but the work did not appear until 1874. It will surprise most people to hear that far from being constantly in personal contact, the collaborators only met each other three times in their lives—twice in London (1867 and 1873) and once in Berne. "Pharmacographia" has been translated into German and French, the author of the French translation being M. J. L. de Lanessan, at the time Professor at the École de Médecine in Paris, and lately Governor-General of French Indo-China.

MADEIRA has been so often described by historians, naturalists and medical men that it is really difficult to say anything new about the island. Nor does Surgeon-General C. A. Gordon in his handbook on *The Flower of the Ocean: A Resort for the Invalid; a Field for the Naturalist* (Baillière,

Tindal & Cox), add, or profess to add, anything absolutely novel to the stock of Madeira information. The book, however, is useful as a companion for anyone contemplating a trip to the island, and as a guide for those who may be called upon to impart information about Madeira from a medical point of view. Dr. Gordon devotes the bulk of his space to hints about living in Madeira, and to its climate, natural products and hotels. He freely mentions the names of the last, and refers in the same way to the two English and the one German physicians and the four Portuguese medical men, but contents himself with the bald statements that "there are several druggists' establishments in Funchal" (a fact which must be rather obvious to most people), and that "there is in Funchal a pharmacy where prescriptions by English physicians are dispensed." Two chapters are devoted to the principal products (wine and sugar) and the medicinal plants of Madeira, which are as numerous as might be expected from so favoured a land, but most of them are only employed as domestic remedies by the natives. With regard to one product, however, we find it stated that "a considerable trade is carried on with the West Indies, more especially Demerara." This is an excrescence, locally known as *madre de lauro*, growing upon the bay laurel (*Laurus nobilis*). It is used in the form of tincture in cases of uterine debility and as a stomachic.

## New Books.

Butler, Dr. *Hot Water as a Remedy: a Personal Experience of the Dietetic System of Dr. Salisbury and Dr. Butler*. 7th edit. 12mo. Pp. 43. 6d. (Milner, Lancaster.)

Fallowfield's *Photographic Annual*, 1895-6. 39th issue. Paper covers. Post 8vo. Pp. 780. Illustrated. 1s. 6d. (Fallowfield's Central Photographie Stores.)

Halle, E. *Trusts; or, Industrial Combinations and Coalitions in the United States*. Cr. 8vo. 5s. net. (Macmillan.)

Hirsch (Dr. Bruno) and Schneider (Dr. A.) (Editors). *Commentar über den Nachtrag zum Arzneibuch für das Deutsche Reich*. Third edition. Paper covers, 1.20m. Cloth, 1.80m. (Vandenbroch & Ruprecht, Göttingen.)

Jacobsen, Dr. E. (Editor). *Chemisch-technisches Repertorium*. Uebersichtlich geordnete Mittheilungen der neuesten Erfindungen, Fortschritte und Verbesserungen auf dem Gebiete der technischen und industriellen Chemie mit Hinweis auf Maschinen, Apparate und Litteratur, 1894. First half-yearly volume, first part illustrated. (R. Gärtners Verlagsbuchhandlung Berlin.)

Linn, T. *The Health Resorts of Europe*. 3rd revised edition. Post 8vo. Pp. 330. 2s. 6d. (Kimpton.)

Martindale, Wm. F.C.S., and Westcott, W. Wyun, M.B., Lond. *The Extra Pharmacopæia*. Eighth edition. Leather cover. Med. 24mo. Pp. xxviii. and 584. 9s. (H. K. Lewis.)

Massee, H. J. L. J. *The Dark Room and its Equipment*. Post 8vo. 6d. net. (*Junior Photographers Series*, No. 2.) (Lund.)

*Materia Medica*. Part 6. Post 8vo. Pp. 72. 1s. net. (Livingstone, Edinburgh.)

*Modern Developers, and How to Use Them*. 12mo. Pp. 56. 6d. net. (Hiffe.)

Murrell, William, M.D., F.R.C.P. *Clinical Lectures on the Prevention of Consumption, delivered at the Westminster Hospital*. Cloth. Post 8vo. Pp. viii and 98. 3s. 6d. (Baillière & Co.)

Penlake, R. *Developers: their Use and Abuse*. Post 8vo. Pp. 64. 6d. net. (*Junior Photographer Series*, No. 4.) (Lund.)

Roughton, Edmund, W., B.S., M.D., F.R.C.S. *General Surgery and Pathology for Dentists*. Large 8vo. Cloth. Pp. viii and 134. Cloth, 5s. 6d.; paper, 4s. 6d. (J. P. Segg & Co.)

Schmidt, Dr. Fr. (Editor). *Helfenberger Annalen*, 1894. Laboratory Records of the Chemische Fabrik Eugen Dieterich in Helfenberg, Dresden. Paper cover. Post 8vo. Pp. 66. Price 1 mark. (Julius Springer, Berlin.)

Spender, Mrs. J. K. *Thirteen Doctors*. Post 8vo. Pp. 316. 6s. (Innes.)  
Vought-Diteham, M.D., D.D.S., L.D.S. *Our Teeth: Care and Preservation*. 12mo. Cardboard covers. Pp. 52. 1s. (Baillière & Co.)

Warming, E. *A Handbook of Systematic Botany*. With a revision of the Fungi by Dr. E. Knoblauch. Translated and edited by M. C. Potter. With 610 illustrations. 8vo. Pp. 624. 15s. (Sonnenschein.)

Yorke-Davies, N. E., L.R.C.P., &c. *Health and Conditions in the Active and Sedentary*. Second edition (third thousand). Post 8vo. Cloth. Pp. xvi and 250. (Sampson Low & Co.)



## The Aconitine Research.

WE have now obtained a copy of Dr. B. H. Paul's reply to the special report of the Research Committee on the Aconitine Research, which we printed on April 6. Dr. Paul, it will be remembered, wrote last week stating that the publication of that report by itself was unfair to him, but he did not feel at liberty to give us more than a brief summary of his reply. We agree with him as to the injustice of giving one side only, and, therefore, now print his rejoinder in full:—

In responding to the desire of the Council that I should reply to the statements contained in a special report of the Research Committee—a copy of which has been sent to me by the Secretary—I have, in the first place, to state that, up to the present moment, I have not received any official communication of the conclusion stated to have been arrived at by the Committee on January 8 last, "that the published work of the Research Laboratory had not received proper notice in the *Pharmaceutical Journal*." I have only indirect and inferential cognisance that such a conclusion was come to by a part of the Committee, and that a charge was made against me of having done injustice in respect to the priority claimed by Professor Dunstan and his colleagues over Messrs. Freund and Beck with reference to the constitution of aconitine.

My knowledge of the matter has been derived from a written statement handed to me by the President on January 16, as having been agreed to by himself and Mr. Ekin, with the suggestion that it should be published in the *Pharmaceutical Journal*. (See Correspondence, page 1.)

That statement referred to the mention made of the investigation of aconitine in the *Pharmaceutical Journal* of January 5. Upon examination, I found it to be in several particulars in direct opposition to published records; it expressed opinions conveying unjustifiable imputations and others having no foundation; it instituted a comparison between Ehrenberg and Purfürst and Mr. Dunstan eminently disparaging to the two former, and it represented Freund and Beck as having appropriated, without due acknowledgment, conclusions which had been previously published by Mr. Dunstan.

In addition to these objectionable features, the statement contained matter quite irrelevant to the question of priority which had been raised by Mr. Dunstan, and its general purport was an acknowledgment that the facts of the history of the aconitine investigations had not been properly represented in the *Pharmaceutical Journal*.

I felt convinced that these suggestions were entirely without foundation; that the publication of the statement in question would not be consistent with my duty as editor, inasmuch as it expressed a one-sided view of a disputed question, distinctly inconsistent with published evidence, and that it would have subjected me to the charge of having been unduly influenced to endorse and advocate an unfounded charge of plagiarism against Freund and Beck. But, before acting upon that conviction, I made a careful examination of the published papers bearing upon the subject. The result of that inquiry fully confirmed the view I held, and it also brought to light circumstances which gave the matter a more serious aspect.

Thereupon I wrote to the President, as chairman of the Research Committee, stating that the mention of the aconitine investigation in the review of the year was a bare recapitulation of published facts, and giving my reason for avoiding reference to the particulars upon which the conflicting claims as to priority were based. (See Correspondence, page 2.)

At the same time I wrote a private letter to Mr. Carteighe pointing out more fully the objections to the publication of the statement and the general undesirability of entering upon a critical discussion of the subject (see page 3). I also expressed the indignation I felt at the unfounded charge made against me as editor of the *Journal*, and added that I should look to the Research Committee to insist upon an apology from Mr. Dunstan. To that letter I received a very curt reply (see page 4). Owing to the absence of the President in Manchester, a subsequent letter (see page 5) probably did not reach him for some days. But in the interval I saw Mr. Ekin and pointed out to him the abso-

lute inconsistency between Mr. Dunstan's claim to priority and the contents of the papers he had published before February 25. It so thoroughly impressed him that he said at once the Committee owed me an apology for not having perceived the fact independently. Subsequently the President discussed the matter with me on several occasions with a similar result, and just before the meeting of the Research Committee on February 5 he stated his intention of moving that a formal apology should be sent to me.

Before that date, however, I had received information that a strenuous effort was being made to bring influence to bear in support of Mr. Dunstan's claim of priority over Freund and Beck; but the opinion unreservedly expressed by the President and the other pharmaceutical members of the Committee seemed to remove any ground for suspicion that they would be so influenced as to act in opposition to their previously expressed conviction. The special report shows, however, that they have been induced to adopt a directly opposite view. The grounds upon which that remarkable conversion has been effected have not been disclosed, and, consequently, no opportunity has been given of replying thereto.

I must here protest against the statement, in the special report, that the Committee received a copy of a printed pamphlet\* in which "a series of charges are made by the Editor against the Director of the Research Laboratory." That is not the case. No copy of the pamphlet referred to was sent to the Committee. Copies marked "Private and Confidential" were sent to the pharmaceutical members of the Committee individually, to inform them of the facts I had ascertained by my inquiry into the matter. That was, however, intended to be a purely personal communication, and although, by the special request of the President, I afterwards sent copies of the pamphlet to the outside members of the Committee, it could not be considered by the Committee without a breach of confidence. Moreover, no charges whatever have been made by me against the Director of the Research Laboratory. I have simply stated facts which are beyond dispute, and if—as the Committee appears to have recognised—the inexorable logic of those facts leads to inferences suggesting charges against Mr. Dunstan, those charges are not preferred by me. The facts stated are for the members of the Committee to consider individually and, within that limit, to deal with as they think fitting; but without violating the confidential nature of my communication to them. That matter is altogether outside the question affecting the editor of the *Journal*.

I cannot understand why Dr. Frankland should, as a member of the Committee, undertake the duty of investigating the subject and presenting a report upon it, or why, at the request of the President, a distinguished anonymity should have drafted a memorandum upon the case for the information of the Committee. So far as I am concerned, the facts of the case are so simple and self-evident, that the assistance of "distinguished" chemists is not needed for their comprehension. If the report presented by the Committee has been inspired by Dr. Frankland and his latent coadjutor, they have either ignored or misinterpreted the crucial facts of the case relating to myself. Their opinions cannot alter the facts.

In reply to the conclusion arrived at by the Committee, and to the charge stated in the first paragraph of the special report of the Research Committee, I still adhere to the position stated in my letter to the President of January 9. (See Correspondence, page 2.)

To substantiate that position, I refer first to the paper published by Freund and Beck in the *Berichte* of the German Chemical Society (xxvii, 433) on February 19, and reproduced in the *Pharmaceutical Journal* of March 3.

That paper contradicts the view then held by Mr. Dunstan, that aconitine and isaconitine had the same composition and were two different forms of benzoyl-aconine: it confirms the observation by Ehrenberg and Purfürst that acetic acid is produced in the hydrolysis of aconitine and their suggestion that aconitine might be an acetyl compound.†

\* The prejudicial suggestion made in the final paragraph of the special report and in Mr. Ekin's letter of March 4 as to the distribution of that pamphlet is entirely without foundation.

† *Journ. für prakt. Chemie*, xlv., 606, 607, 610, and *Pharm. Journ.*, lii., 66



It also contains definite statements that the conversion of aconitine into isaconitine consists in the elimination of the acetyl group as acetic acid, by the intervention of the elements of water, and that constitutionally aconitine is therefore to be regarded as acetyl-benzoyl-aconine, a corresponding alteration being made in the formula representing the composition of aconine, the final product of the hydrolysis.

To further substantiate my position, I refer also to the communication made by Mr. Dunstan to the Chemical Society of Berlin, on February 25, and published in advance in the *Pharmaceutical Journal* of March 3. Ignoring altogether the observations of Ehrenberg and Purfürst, and their subsequent confirmation by Freund and Beck, Mr. Dunstan there states that the fact of aconitine losing acetic acid and forming picroaconitine when it is hydrolysed, as stated by Freund and Beck, had "already been published" by him and his colleagues, and he there claims priority in regard to the publication of those facts, as well as the view that aconitine is acetyl-benzoyl-aconine, alleging that to be an "obvious conclusion" from the contents of the abstracts published in the *Pharmaceutical Journal* on January 20, and in the "Proceedings of the Chemical Society," issued on January 27.

Those are the published facts recapitulated in the retrospect of 1894, and, discordant as they are, I submit that no injustice was done by their statement for the purpose of indicating the positions taken by the persons concerned, since the statement of the facts was carefully worded so as to avoid conveying an opinion in any direction upon the points at issue, while leaving an open field for the persons interested to defend their conflicting claims, had they desired to do so. I submit that the matter might more prudently have been left in that position, than to have called for the publication of an *ex parte* advocacy of Mr. Dunstan's claim to priority, which must of necessity have provoked retorts of an equally objectionable nature.

But since Mr. Dunstan's claim of priority has been pressed forward, I must state that its unfounded nature is proved by the total opposition of the views put forward in the papers published before February 19, and the views expressed by Freund and Beck in their paper. The contents of the so-called "original papers," subsequently published in the *Journal* of the Chemical Society, do not come into consideration as regards the question of priority, on account of their subsequent publication, and reference to them can only raise other questions. The opposite nature of the abstracts, and of Freund and Beck's first paper appears to me within the capacity of any person to recognise. It was, in fact, recognised by each of the pharmaceutical members of the Committee until the special meeting held on February 22, and I can only express astonishment that they should then have been induced to sign the special report presented to the Council at its last meeting.\*

Finally, in reply to the special report of the Research Committee, I again state that no charges of any kind have been brought by me against the Director of the Research Laboratory. As to the finding of the Committee, it is in every particular contrary to published evidence, as shown below:—

1st. "Quantitative experimental evidence" confirming previous observations by Ehrenberg and Purfürst and showing that aconitine is acetyl-benzoyl-aconine, was published by Freund and Beck in the *Berichte* of the German Chemical Society on February 19, and an abstract of their paper appeared in the *Pharmaceutical Journal* of March 3. The statements to the same effect by Professor Dunstan and Mr. Carr were not published until March 15.

2nd. Whether or not Professor Dunstan and Mr. Carr derived, or made use of, any information published either by Messrs. Ehrenberg and Purfürst, or by Messrs. Freund and Beck, the information they gave was published and matter of common knowledge—in one case for eighteen months and

in the other for three weeks—before the publication of statements to the same effect by Professor Dunstan and Mr. Carr.

3rd. The three papers published by Professor Dunstan and Mr. Carr, before the appearance of Messrs. Freund and Beck's paper, do not contain any evidence that aconitine is acetyl-benzoyl-aconine, or any suggestion that aconitine differs in composition from isaconitine as shown by Freund and Beck. In those three papers there is not one word to indicate departure from Mr. Dunstan's repeated demonstrations that isaconitine "possesses the same chemical composition as aconitine and furnishes on hydrolysis the same decomposition products;" that aconitine and isaconitine "are both isomeric benzoyl-aconines, and are represented by the same formula" (*Pharmaceutical Journal*, lii., 768).

In the first paper the only evidence produced is distinctly to the effect that aconitine and isaconitine have the same composition—that they are different forms of benzoyl-aconine.

In the second paper the indications of "quantitative experimental evidence" do not relate to the "hydrolysis of aconitine," the subject in regard to which priority is claimed; they relate to an entirely different alteration, and do not furnish any more ground for conclusions as to the relative constitution of aconitine and isaconitine than had been previously furnished by Ehrenberg and Purfürst's observation that acetic acid is produced in the hydrolysis of aconitine, and Groves' much earlier observation that acetic acid is given off when aconitine is heated (*Pharmaceutical Journal*, [3], iv., 295).

In the third paper there is absolutely no indication of "quantitative experimental evidence" at all; the only reference to the constitution of aconitine is the statement that it yields on hydrolysis "aconine and benzoic acid." The idea that, relatively to isaconitine, aconitine might be an acetyl compound is not put forward as representing an ascertained fact; but it is mentioned only as one among several speculations, still under investigation, which might or might not turn out correct, after further inquiry, precisely in the same manner as that very same speculation had been put forward in 1892 by Ehrenberg and Purfürst (*Pharmaceutical Journal*, lii., 86). *How can it be claimed that the constitution acetyl-benzoyl-aconine was indicated in a paper in which it is stated that the author is still engaged in investigating "the origin and amount of acetic acid produced," and also in determining whether picroaconitine is formed in corresponding quantity; or whether aconitine may not be an acetyl derivative which loses its acetyl group on hydrolysis? There are other important side issues, but everything revolves round that one point.*

4th. This finding involves questions upon which I am probably as well entitled to form and to express an opinion as any member of the Research Committee; but as those questions are outside the scope of the subject upon which I am called upon to offer remarks, I shall not further refer to them.

Upon the basis of the indisputable facts above stated, my case is—

1st. That the paragraph in the *Journal* of January 5 is a truthful and impartial reflection of what had taken place, during 1894, in regard to aconitine investigation.  
2nd. That in regard to the claim of priority, it was undesirable to discuss it in the *Journal*, since the evidence of published documents proves that it cannot be substantiated.

3rd. That no injustice has been done to Professor Dunstan and his colleagues, and that there is no foundation for the opinion that the published work of the Research Laboratory has not received proper notice in the *Pharmaceutical Journal*.

I submit that these three propositions are conclusively substantiated by the evidence bearing upon the question and—whatever complication may result from the enforced consideration of this unhappy affair—I confidently rely upon the justice of that conclusion being recognised by the Council, as well as my claim to have faithfully and impartially discharged my duty as editor of the *Society's Journal*.

BENJ. H. PAUL.

\* Altogether this report appears to be a desperate effort to defend the claim of priority, and by entering into matters outside the question affecting the editor of the *Journal*, the Committee has, in fact, taken the position of the Director of the Research Laboratory, rendering its action open to question as well as his, the judicial tone assumed in the final paragraph, for the direction of the Council to my prejudice, is therefore as inappropriate as the suggestions made in that paragraph are unfounded.

CAPE COLONY imported in 1894 230,491/ worth of pharmaceutical 'rticle', in 1893 173,068/ worth.



## Counter Practice.

RECIPES CONTRIBUTED BY SUBSCRIBERS IN COMPETITION,  
AND COMMENTED UPON BY A MEDICAL PRACTITIONER :  
WITH TYPICAL PRESCRIPTIONS IN EACH GROUP.

## DYSPEPSIA.

ALKALINE MIXTURES FOR  
DYSPEPSIA.

*Alkaline mixtures are best in cases of atonic dyspepsia and ill-health. Alkalies increase the flow of acid in the stomach, and should be taken after meals. They are often of special service in the dyspepsia of young people, who complain of lassitude, backache, and headache.*

Potass. bicarb.	..	5j.
Tinct. gent. co.	..	5ij.
Tinct. lupuli	..	5ij.
Tinct. calumbæ	..	5ij.
Liq. taraxaci.	..	5ij.
Aq. distill. ad	..	5vj.

Misce et filtra.

Cap. 3ss ter die ex aqua.

Pil. rhei comp.	..	gr. v.
Cap i. h.s.s.p.r.n.	(250)	

Sodii bicarb.	..	5ij.
Sp. ammon. ar.	..	5iv.
Tinct. capsic.	..	℥xii.
Inf. auraut. co.	..	3ij.
Aq. menth. pip. ad	..	3vj.

One-twelfth part in water three times a day after food. (170)

Pot. bicarb.	..	5ij.
Spt. ammon. arom.	..	5j.
Tinct. card. co.	..	5ij.
Spt. chloroform.	..	5iss.
Tinct. zingiberis	..	5ij.
Syrupi	..	3ss.
Aque ad	..	3vj.

A sixth part to be taken soon after breakfast, dinner, and tea. (155)

Sod. bicarb.	..	5j.
Sp. amm. co.	..	5iss.
Tr. nuc. vom.	..	5j.
Inf. gent. co. con. 1-7	..	3vj.
Aq. chlorof. ad	..	3vj.

3ss. ter die ante cib.

If with constipation, add—

Ex. casc. liq.	..	5ij.
(115)		

Potass. citrat.	..	3ij.
Sodii bicarb.	..	5j.
Sp. ammon. arom.	..	5ij.
Tr. calumbæ	..	5ij.
Aq. chloroformi	..	3ij.
Aque ad	..	3vj.

M.

Cap. part. sext. ter in die ante cibos. (22)

Sod. bic.	..	5j.
Pot. bic.	..	5j.
Spt. am. ar.	..	3ij.
Æth. chlor.	..	3ij.
Aq. ad	..	3vij.

1/2 part. c. 3ss. succ. limon. prep. in stat. efferv. (231)

Potass. bicarb.	..	3iss.
Tinct. card. co.	..	5ij.
Spt. am. arom.	..	3ij.
Inf. gent. ad	..	3vj.

M.

1/2 ter die sumend. (145)

Potass. bromide	..	9iv.
Potass. bicarb.	..	9iv.
Sp. ammon. co.	..	3iss.
Sp. chloroformi	..	5j.
Inf. gentianæ co. ad	..	3vij.

M. Fiat mistura.

Cap. coch. ij. amplum ter in die inter cibos. (103)

Sod. bicarb.	..	3iss.
Pot. brom.	..	gr. 80
Sp. am. co.	..	5ij.
Tr. card. co.	..	5ij.
Spt. chlorof.	..	3iss.
Inf. calumb. ad	..	3vij.

M. Ft. m.

3j. t.d.s. (96)

## BISMUTHIC.

*Here are several formulae containing a soluble bismuth salt. Most of these mixtures will do good in cases of dyspepsia accompanied by pain, flatulence, and fullness after eating.*

Mist. bismuthi co. (Seller's)	5iv.
Ext. cascara sag. liq. (miscible)	5ij.
Glycerol. pepsin	5ij.
Glyc. acid. carbol.	℥xij.
Syr. hypophos. co.	5j.
Aq. caryoph. ad	3vij.

M. Ft. mist.

One-eighth part 3 times a day after food. (193)

Sodii bicarb.	..	3iss.
Liq. bismuthi	..	3vj.
Spt. ammon. ar.	..	3ij.
Acid. hydrocyan. dil.	..	℥xij.
Syr. zingib.	..	3vj.
Inf. gent. co. ad	..	3vj.

M.

Cap. 3ss. ter horâ ex aqua. (2)

Sodii bicarb.	..	5ij.
Liq. bismuthi	..	3vj.
Spt. ammon. ar.	..	3ij.
Ac. hydrocy. dil.	..	5j.
Inf. gent. co. ad	..	3vij.

M.

3ss. ter die p.c. (19)

Sodæ bicarb.	..	5ij.
Liq. bismuthi	..	3j.
Sp. am. co.	..	5ij.
Liq. tarax.	..	3j.
Ex. chlorof.	..	3iss.
Inf. calumbæ ad	..	3vij.

M. Ft. mist.

3ss. ter die. (132)

Liq. bismuthi et ammon. citr.	..	3j.
Sodii bicarb.	..	5ij.
Tinct. capsic.	..	5j.
Spt. chloroformi	..	5iss.
Infus. calumbæ	..	3ij.
Aque menth. pip. ad	..	3vj.

M. Ft. mist.

3ss. ex 3ss. aque ter in die post cibos sumend. (234)

Potass. bicarb.	..	3ij.
Mist. bism. coct.	..	3ij.
Pepsin (Seller's)	..	3vj.
Aque chloroform.	..	3vj.

Cap. 3j. ter die post cibos. (47)

Sodæ bicarb.	..	5j.
Liq. bismuthi	..	3j.
Spt. chlorof.	..	5ij.
Spt. ammon. ar.	..	5ij.
Ess. zingib.	..	5ss.
Aq. calcis ad.	..	3iv.

Fig.: 3ss. thrice daily after food.

(206)

Pot. bicarb.	..	5ij.
Liq. bismuthi	..	3iv.
Tr. capsic.	..	5j.
Tr. gent. co.	..	5ij.
Spt. chlorof.	..	3iss.
Inf. chirette ad	..	3vj.

Ft. mist.

3ss. quater in die sumend. post cibos ex aqua. (211)

Liq. bismuthi	..	3ij.
Sodæ carb.	..	5ij.
Tr. byose.	..	3iv.
Spt. chlorof.	..	5ij.
Acid. hydrocyan. dil.	..	5j.
Inf. calumb. conc.	..	5vj.

Aque ad

M. Ft. mist.

Cap. 3p. ex aqua ter die post cibos. (203)

Liq. bism. et am. cit.	..	5vj.
Sodii bicarb.	..	gr. lxxx.
Acid. hydrocyan. dil.	..	℥xxiv.
Liq. strychniæ	..	℥xl.
Tr. card. co.	..	5ij.
Aq. menth. pip. ad	..	3vij.

Cap. 3j. t. d.s. (9)

Potass. bicarb.	..	gr. 15
Liq. bismuthi	..	℥ 20
Sp. amm. co.	..	℥ 20
Sp. chlorof.	..	℥ 10
Aq. menth. pip. ad	..	3j.

Misce. Mitte 3vij. or q.s.

To be taken after meals when required. (38)

Spirit. ammon. ar. m.	..	5v.
Liq. bismuthi	..	5v.
Spirit. chloroformi	..	5ij.
Infus. gentian. ad	..	3iv.

M.

Fig.: A teaspoonful in a wineglassful of water quarter of an hour before meals. Shake the bottle. (79)

Sp. ammon. ar.	..	5v.
Spt. chlorof.	..	3ij.
Liq. bismuthi	..	5v.
Infus. gentian. ad	..	3iv.

M.

Fig.: A teaspoonful thrice daily in water before meals. (56)

Sodæ bicarb.	..	5ij.
Liq. bismuthi	..	5j.
Syrup auraut.	..	5iv.
Inf. gent. co. conc.	..	3j.
Aq. chlorof. ad	..	3vij.

Ft. mist.

3j. ter die post cibos. (191)

*The following mixtures contain an insoluble salt of bismuth, and equally are suitable in cases of dyspepsia accompanied by pain, flatulence, discomfort after eating, &c.*

Sodii sulphocarb.	..	5ij.
Bismuth. subnit.	..	5ij.
P. tragac. co.	..	9j.
Tr. nucis vom.	..	5ij.
Spt. am. arom.	..	5ij.
Aq. menth. pip. ad	..	3vj.

M. Ft. mist.

3ss. ter in die post cibos. (169)

Bism. subnit.	..	gr. x.
Sodæ bicarb.	..	gr. x.
Mucil. trag.	..	q.s.
Aq. chlorof.	..	℥x.
Tr. nucis vom.	..	℥vj.
Aq. ad	..	3j.

T.d.s. post cib. mitte 3vij.

Ext. casc. sag. liq.	..	3j.
Ext. glycyrrh. liq.	..	3j.

M.

3j. primo mane c. aqua pro re nata. (147)

Bismuth. carb.	..	5ij.
Sodii bicarb.	..	5ij.
Pulv. tragac. ver.	..	gr. xx.
Tinct. zingiberis	..	3vj.
" cascarillæ	..	3j.
Aq. menth. pip. ad	..	3vij.

M. Ft. mist.

Signa.: An eighth part to be taken in a little water shortly after meals 2 or 3 times a day. (33)

Bismuthi carb.	..	gr. 4
Sodii bic.	(Howd's)	gr. 0
Am. carb.	..	gr. 2
Æth. chlor.	..	℥ 10
Ess. zingib.	..	℥ 10
P. tragac.	..	gr. 1
Tr. calumbæ	..	℥ 30
Inf. gent. conc.	..	5j.
Aq. menth. pip. ad	..	3j.

M. Ft. mist.

Pro dosis. (17)

Bismuth. carb.	..	5ij.
Sodæ bicarb.	..	5ij.
Ammon. carb.	..	5j.
Pulv. tragac. co.	..	5ij.
Tr. zingib. fort.	..	5ij.
Tinct. rhei	..	3j.
Sp. chloroformi	..	5ij.
Infus. gent. co. ad	..	3vj.

Fig.: 3ss. ter die ad. post cibos.

(232)

Bismuth. carb.	..	5j.
P. tragac. comp.	..	3ss.
Spt. myristicæ	..	5ij.
Acid. hydrocyan. dil.	..	3ss.
Inf. gentianæ co. ad	..	3vj.

M. Ft. mist.

Capiat 3ss ter in die. (73)

Bismuth. carbon.	..	5j.
Sodii bicarbonatis	..	5ij.
Pulv. acacie	..	5j.
Mag. carb. pond.	..	5ij.
Tinct. limonis	..	3ss.
Acid. hydrocyanic. dil.	..	℥vj.
Aqua ad	..	3vi.

3ss. ex aq. ter in die sumend.

(136)

Bism. carb.	..	3ij.
Sod. bicarb.	..	5ij.
Muc. trag.	..	3j.
Tr. lupuli	..	5vj.
Aq. ad	..	5vj.

M.

3ss. ter die ante cibos. (27)

Bismuth. carb.	..	5j.
Sodii bicarb.	..	5j.
Spt. chloroform.	..	5j.
Syrup. aurantii	..	3j.
Aqua ad	..	3vj.

Ft. mist.

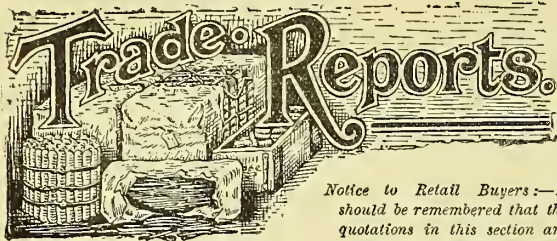
Cap. 3ss. ter in die post cib. (76)

Bismuth. carb.	..	5j.
Sod. bicarb.	..	5j.
Pulv. acacia	..	5j.
Sp. chlorof.	..	3iss.
Inf. gent.	..	3iv.
Aq. ad	..	3vij.

M. Ft. mist.

Cap. 3j. ter in die. (50)





Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large

quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., April 18.

CONSIDERING the temporary cessation of trade caused by the holidays, business has been very satisfactory in the drug and chemical markets, and the prices of the leading articles are fairly well maintained. The export trade is fairly brisk, and a considerable improvement in the shipments of goods to the East is confidently expected. The bank-rate remains at 2 per cent. Bar silver has further risen from 30½d. per oz. last Thursday to 30¾d. per oz. Among the few alterations which have occurred in crude drugs it should be mentioned that *Balsam Peru* is held for somewhat higher figures. *Citronella oil* has considerably advanced, both on the spot and for delivery, and the quotation for shipment of *Star-anise oil* is also higher. *Chinese Soy* is a little dearer. Chinese and Japanese drugs are generally very firmly held, although no actual improvements can yet be quoted beyond those for the two articles just named. *Insect-flowers* and *Menthol* are very firmly held, and there is an impression that some improvement may shortly be seen in *Cod-liver oil*. The *Opium* market is quite neglected, and all indications point to a further decline in the drug. In sympathy with this fact the prices of *Morphia* and *Cocaine* have been reduced by the manufacturers. *Caffeine* is practically unobtainable on the spot, all small parcels coming into the market realising extreme prices. In *Quinine* the feeling is somewhat firmer, and the shilling-limit has been reached in the second-hand. *Cream of tartar*, as well as *Tartaric* and *Citric acids*, firmly held, and tending higher. *Quicksilver*, although not yet raised in price by the largest importers, is exceedingly firm in the second-hand, and an advance would not be surprising. In that case we shall probably see a rise of at least 1d. per lb. all round in *Mercurials*. *Camphor*, both the crude and the refined article, without alteration. In "outside" markets there have been few alterations, but those that have occurred are generally towards higher prices. *Shellac*, for instance, is decidedly dearer, *Japan wax* a little firmer, and *Chinese Galls* maintain the advance. In *Spices* little or no business has been done this week, no auctions having been held either in this article or in any of the other commodities of pharmaceutical interest. A better feeling prevails in the *Tea-market*. *Heavy Chemicals* are mostly unchanged. *Benzol* is a little easier. Oils are generally dearer: *Linsced oil*, landed, costs 20s. to-day; refined *Rope oil*, 22s. 6d.; and refined *Cotton seed oil*, 18s. to 19s. per cwt. *Cocanut* and *Olive oils* are firmer, but *Turpentine* is easier; American, on the spot, 22s 4½d. per cwt. The great advance in *Petroleum* is checking business. American oil stands to-day at 9d. to 9½d.; Russian, at 8½d. per gallon.

### The Liverpool Market.

Our correspondent, writing on April 17, says that in *Gums* the trade in *Arabic acacia gum* is still limited, the consumption at present being evidently small. *Soudan sorts* are maintained in a fairly steady position with a small stock, and 57s. 6d. is the lowest quotation for a fair average quality; other grades are unchanged, with little passing. In *African ginger* there has been considerable movement; sales commenced at 23s. 6d., and now 27s. per cwt. has been paid for sound root; stocks are being perceptibly reduced, and holders are talking of yet higher figures in the near future. *Canary-seed* has not improved its position during the holidays, as good *Turkish* is now procurable at 38s. per quarter. *Kola-nuts* have been in good demand, and all arrivals have met with ready buyers at prices in the neighbourhood of 1s. per lb. for sound nuts. *Cream of tartar* is much firmer at 64s. to 65s. per cwt., and higher prices are reported to arrive from France and Spain. Thirty-five bales of *Jaborandi* offered at auction, but failed to find buyers, as the quality left much to be desired. *Castor oil* is firm at 2d. for good seconds *Calcutta*, and the same price is asked for first-pressure *French*; *Madras* is held for 2d. per lb.; the market for *Castor oil*, in all positions, is very strong, and holders are looking for much better figures shortly. Small sales of *Chilian anise* have been made at 23s. per cwt. *Beeswax* continues scarce, and holders are very firm at late rates. *Potashes* are obtainable at 22s. 3d., and *pearlashes* at 42s. 6d. per cwt. *Lime juice*: The *Hilda* has arrived from *Montserrat* with 487 puncheons. *Guinea-grains* are quiet at 15s. to 16s. per cwt.

### The Amsterdam Market.

Our correspondent in Amsterdam writes on April 12, that of *Sumatra Benzoin* 523 boxes are to be sold by auction on April 19; nearly the whole of this is of recent importation. The parcel includes 100 boxes of *fine seconds*, valued at 90c. to 95c. per half-kilo; 70 boxes very good *seconds*, valuation from 77½c. to 85c.; 258 boxes good *seconds*, valuation 70c. to 80c.; and 95 boxes *fair seconds*, valuation 55c. to 65c. Arrivals have been very heavy lately, almost every steamer bringing in consignments. *Oil of Cajuput* unaltered without business to report. The *Cubeb* market has become very dull, only about 16 bales of cultivated berries valued at from 20c. to 22½c. and 36 bales coarse berries at 17c. to 22c. have been sold at slightly above the valuation. *Cassia fistula*.—Very quiet. There is no inquiry at all on the spot; on the other hand there has been some demand for shipment both by sail and by steamship.

### The Newcastle-on-Tyne Chemical-market.

Our Newcastle-on-Tyne correspondent writes:—"There is little change to report in the general condition of the chemical-market here; it continues dull. Owing to the Easter holidays business has been generally suspended. The demand for shipment has increased to some extent, but yet, considering the time of the year, it is by no means what it should be. The outlook, however, may be regarded as promising, especially as regards trade with the Baltic ports. Prices remain without material change. *Bleaching-powder* continues in fair demand, but prices are decidedly in buyers' favour—viz., 7l. per ton net softs, and 7l. 5s. per ton net hards. *Hyposulphite of soda* retains its firm position at unchanged rates. *Recovered sulphur* is scarce, with fair inquiry at from 4l. 5s. to 4l. 7s. 6d. per ton in 2-cwt. bags. *Silicate of soda*: 140° Tw, 3l. 10s. per ton net; 100° Tw, 3l. 2s. 6d. per ton net; 75° Tw, 2l. 12s. 6d. per ton net; brown and green lump, 4l. 10s. and 4l. 7s. 6d. respectively. *Sulphocyanides* have taken a slightly higher tone, *Barium* now standing at 5d. per lb., and *Ammonium* at 7d. per lb. *Salt-cake* is also in better request. *Yellow prussiate of potash* is nominally 9d. per lb., but for large orders a reduction might be obtained. *Chlorate of potash* is unchanged at 4¾d., and *Chlorate of soda* at 6¾d. per lb. Moderate orders for pure white *Sulphate of alumina* and *Blanc fixe* have passed. *Chloride of barium* has declined slightly, but a rise in prices may be expected shortly, on account of the intended convention amongst the German manufacturers."

### The New York Drug-market.

Writing under date of April 10, our New York correspondent says:—"The market continues devoid of specu



lative interest save in *gum chicle* and in Eastern drugs. The former has paused at 50c. in its upward movement, and the market appears to be in a waiting attitude with a tendency to lower prices. The steady advance in the price of silver causes a corresponding improvement in the position of Eastern drugs generally. No large transactions are reported, but holders of *anise* and *cassia oils* have advanced their quotations slightly. *Anise* oil is firm at 1.52½ to 1.55, and *cassia* at 1.12½ to 1.15. *Opium* is very quiet at \$2 quoted for single cases, though \$1.90 could probably be accepted. *Quinine* is in steady demand in jobbing quantities, while some improvement is noted in the inquiry from manufacturers. P. & I. extract of liquorice has recently been reduced to 24c. A decline has occurred in *Norwegian cod-liver oil* at \$30 to \$35 per barrel. *Menthol* is in limited demand at \$4.20 to \$4.25 for Japanese. *Chlorate of potash* is improving, with sales of English at 9½c. to 10c. *Nitrate of soda* has improved materially, and is firm at \$1.65 to \$1.75 as to quantity and holder. *Peppermint oil* is dull at nominally \$1.65 to \$1.80 for bulk oil, though less would be accepted. H.G.H. is quoted openly at \$2.20, and could probably be bought for \$2.15. Two hundred and twenty-five bales of *Mexican sarsaparilla* have arrived and been taken up at 6c. In a jobbing way 6½c. is wanted, a decline. *Senega* is quoted at 28c. for Manitoba and 29c. for Minnesota. *Jalap* has still further weakened and may be had at 15c. for first brands. *Golden seal* has advanced to 19c. on the spot under considerable purchases by manufacturers."

#### The Petroleum Boom.

The principal event of interest in the produce-markets has been the extraordinary advance in petroleum. The article has been increasing in price for a considerable time; but the rise since the beginning of the present month has exceeded anything of the kind experienced for many years. Two years ago the quotation in America was 55c. per barrel; in January of the present year it \$1; on Saturday last \$1.99, and on Wednesday \$2.70. In the afternoon of the same day, however, a violent "slump" occurred, owing to the cessation of purchases on the part of the Standard Oil Company, and the closing quotation was \$2.17 per barrel. The excitement in the oil-fields of Ohio, South Michigan, Indiana, Pennsylvania, and Western Virginia is intense, the whole population being described as "oil crazy." Nearly 2,000 new wells have been drilled; but up to the present, it is said, the majority of the prospectors have gained nothing by the boom, as no new discoveries of importance have been made. It is exceedingly difficult to form an accurate opinion of what is going on in oil, as the Standard Oil Company, the champion wire-puller, never shows its hand. On the one side it is asserted that for some time the output has been 20,000 barrels a day short of the consumption, which is said to have been exceedingly heavy last winter, and that the upward move is merely the natural result of unduly depressed prices and decrease of supplies; on the other, that the whole thing is a "rig" of the Oil Trust. It is reported that that concern has lately been buying up everything in the shape of oil wells upon which it could lay its hands, and has spent \$2,000,000 for "oil rights" in Pennsylvania and West Virginia alone within the last two months. Another report has it that the Standard Oil Company has long been fighting the Russian producers, who can lay down oil at any port of the United Kingdom at 4d. per gallon and make a profit, and is now about to enter into an agreement with the Russians, dividing the world between the two concerns, and so placing the unfortunate consumer, according to his "location," either under Uncle Sam's beaver hat or under the Russian fur-cap, in any case bleeding him as heavily as can be done with safety. Meanwhile, the Scotch oil-distillers are also taking advantage of the situation. At a meeting of the Scottish oil-trade held on April 12, at the offices of the Broxburn Company, it was resolved to raise the price of burning-oil 1d. per gallon to 5½d. per gallon, in sympathy with the rise in American and Russian oils. This is the first advance made in Scottish oil for a period of eight years. It was also decided that sales should only be made for immediate consumption, and that the prices should be subject to day-to-day revision. On April 17 another meeting took place at Glasgow, when a further advance of 2d. per gallon in burning oil was decided upon.

The total advance on the week is expected to increase the profits of the Scotch companies at the rate of about 210,000l. per annum. As a result of this a great advance has taken place on the Glasgow Stock Exchange in the prices of the oil companies' shares. Pumpherson advanced 40s., Young's paraffin 26s. 6d., and Broxburn 38s. 3d. At the commencement of the year Pumpherson stood at 4l. 12s. 8d., Young's paraffin 1l., and Broxburn at 8l., whilst to-day they are respectively 10l. 15s., 3l. 0s. 6d., and 13l. 13s. 9d. The market is in an extremely feverish state. Many holders of oil shares, who in the past have experienced most severe losses, are now clearing out.

**ACID (CITRIC).**—Steady, at unchanged prices—namely, 1s. 1¾d. to 1s. 2d. per lb. The price of concentrated *Lemon-juice* is 14l. per ton, f.o.b.

**ACID (OXALIC).**—Steady at 3½d. per lb. net delivery at railway station, London.

**ACID (TARTARIC).**—Firmly held, at 10¾d. to 11d. per lb. from the English makers. Foreign acid in *Crystals* or *Powder* is firm at 10½d. to 10¾d. per lb.

**BALSAM (PERU)** is again quoted higher, although we have not heard of much business; 10s. per lb. is asked nominally for good quality of direct import, but we believe that it would be possible, with an order, to buy the same kind at 9s. 6d. or perhaps at 9s. 3d. per lb. c.i.f. terms. On the spot bids of 9s. have been refused.

**BALSAM (TOLU).**—Firmly held, at 1s. 3d. per lb. for good quality; offers of 1d. less have been declined.

**BENZONIN.**—The total exports of gum benzoin from the Dutch Indies were:—

	1889-90	1890-1	1891-2	1892-3
Kilos. ..	820,864	930,454	873,598	876,890

**BENZOL.**—Easier; 90 per cent. can now be bought at 1s. 1d. to 1s. 1½d.; 50 per cent. at about ¾d. less per gallon.

**CAFFEINE.**—Again dearer. For a few odd parcels from 25s. to 27s. per lb. has been paid on the spot. Sales are also said to have been made at 21s. per lb. for August delivery. All this business was done by second-hand holders. The American market continues to be much higher than that in London; from \$8.50 up to \$10 per lb. being asked in the States, where, however, the drug is protected by a 20 or 25 per-cent. duty.

**CAMPHOR (CRUDE).**—A fair amount of business was transacted in *Chinese* camphor just before the Easter holidays, but prices have not been allowed to transpire. On the spot no business has been done, and the quotations remain from 115s. to 120s. for *Chinese* and 125s. for *Japan* camphor. To-day's c.i.f. quotation for Japan is 117s. 6d., April-June.

**CANTHARIDES.**—*Chinese flies* are selling quietly at 1s. per lb. in small quantities.

**CINCHONA.**—A parcel of about 90 packages of natural Bolivian *Calisaya* bark, H.F. brand, has just arrived. It is likely to sell well. The last parcel realised about 2s. per lb. for sound quality.

**CLOVES.**—*Zanzibar* cloves remain quiet, with some business at 2¾d. per lb. for June-August delivery.

**COCAINE.**—The manufacturers of cocaine on April 10 reduced their price for *Hydrochlorate* by 9d., making the current quotation as follows:—For lots under 25 oz., 19s. 9d.; from 25 to 100 oz., 19s. 6d.; 100 oz. and more, 19s. 3d. per oz. These quotations are for *Cocaine* packed in tins; in 1-oz. bottles the price is 3d. per oz. more.

**CREAM OF TARTAR.**—Firm, at 65s. per cwt. for best white French *Crystals*. *Powder* is steady, at 67s. per cwt.

**CUMIN-SEED.**—Small sales of good *Malta* seeds have been made at up to 40s. per cwt.

**GALANGAL-ROOT.**—Very scarce at 18s. to 20s. nominally.

**GALLS (CHINESE).**—The last business on the spot has been at the rate of 57s. 6d. per cwt. for usual shape, but nothing is now obtainable below 60s. per cwt. For arrival 56s. 6d. c.i.f. has been paid.

**GUM KINO.**—Genuine *East Indian Kino* is not offering in first hand. The price is nominally 24l. per cwt.



**INSECT-FLOWERS.**—The following are the current quotations for *Dalmatian* insect-flowers:—Closed flowers, 100s. to 124s.; half-open flowers, 71s. to 84s.; open flowers, 52s. to 53s. 6d. per cwt., London terms. It is said that the position in Trieste is very much firmer, owing to continued buying on the part of American firms. May and June are the chief business months for insect-flowers, and the position seems favourable for an advance in price. The following statistical figures are of interest:—Stock in Trieste on December 31, 1894, 359.5 tons; on January 31, 1895, 341.9 tons; on March 31, 1895, 255.4 tons:—

On March 31	Stock in Trieste. Tons	London Price for Open Flowers per cwt.
1895	255	52/- to 53/6
1894	309	61/- to 63/6
1893	117	49/- to 54/-
1892	266	57/6
1891	201	68 6
1890	138	80/- to 84/-
1889	90½	144/-

**JABORANDI.**—Fine quality is not to be had in London. A parcel which has been offered before will again be shown at the next drug-sales.

**JALAP.**—Quiet at 1s. per lb. nominally for good Vera Cruz.

**KAMALA.**—Selling slowly at 10d. per lb.

**MENTHOL.**—Very firmly held and apparently inclined to advance, although 15s. 6d. per lb. would still buy on the spot.

**OIL (CASTOR).**—Reports from Calcutta, dated March 27, state that in consequence of the low prices ruling for this article the production is very small. The arrivals of *Castor-seed* from up-country remain small. The price in London for *East Indian* castor oil is 2½d. to 2¾d. per lb. for best, and about ½d. per lb. less for second-quality Calcutta.

**OIL (COD-LIVER).**—The London quotation remains 135s. per barrel for best Norwegian. The following, dated April 4, is from a Norwegian correspondent:—"The Lofoten fishery is now drawing near its close. The fish are leaving the grounds, and stormy weather has been prevalent during the last week. Most of the fishing fleet will break up before Easter, and the majority of the oil-works are also preparing to close. It is likely, therefore, that the quantity of cod-liver oil at Lofoten (10,700 hectolitre up till March 31) will be only insignificantly increased. From Finmarken livers are reported very lean, in some quarters even too lean for the steam-extracting of cod-liver oil. Prices have been nominally 125-135 sh., but actually there has been no business done since February. Norwegian exporters have been holding off rather than yielding to losing prices, and if foreign importers should now step forward, we may expect a firm market."

**OILS (ESSENTIAL).**—There has been an upward movement in *Oil of citronella*, which is exceedingly scarce in all positions. On the spot the quotation for native brands in bottles is 1s. 4d. per oz., for tins 1s. 2d. per oz., business having already been done in the last-named variety at 1s. 1½d. per oz. For shipment there is very little offering; business has been done at 11½d. per lb., c.i.f. terms, in drums for shipment within the next six months, and 1s. per lb. is now asked. There appears to be nothing practically available for immediate shipment. *Oil of lemongrass* remains quiet at 1¾d. to 1½d. per oz. *Oil of cassia* is still quoted firmly on the spot at 5s. per lb. for oil guaranteed to contain 70 to 75 per cent. of cinnamic aldehyde; ordinary qualities 4s. 9d. per lb. For shipment, according to a telegram received to-day from China, nothing is to be had. *Star anise oil* scarce at 6s. 3d. per lb., landed terms. The quotation from China is higher, a cablegram to-day mentioning 6s. 5d., c.i.f.

**OPIUM.**—The London market remains neglected, *Druggists'* qualities being much pressed for sale, while *soft shipping* are rather firmer held. The quotations remain as follows: good to fine *soft shipping*, 11s. to 11s. 9d. per lb.; good to fine *Smyrna*, 9s. to 9s. 6d.; *druggists' seconds*, 8s. to 8s. 6d. per lb.; *Persian*, of which some small sales have been made lately, 12s. to 12s. 6d. per lb. according to quality.

The following reports are from our correspondents in Turkey: Smyrna, April 6:—"Prices are from 4d. to 6d. per lb. lower all round since my report of March 30. They are at present:—*Karahissar*, 8s. 3d.; *Yerli*, 8s. 3d.; *Karahissar tale quale*, 7s. 10d.; *Yerli tale quale*, 7s. 10d.; *Current tale quale*, 7s. 8d.; *Slightly seconds*, 7s. 10d.; *Holland grades*, 8s. 6d. per lb., f.o.b. The prices may recede another few pence later on if there should be no demand; but for the present we cannot expect anything lower than to-day's quotations." Constantinople, April 5:—Opium continues on the downward tack. News from the interior points to abundant sowings which have, so far, been favoured with perfect weather. Whether the same condition of things will continue to the end cannot as yet be foreseen. Should such be the case however, the yield, so far as can be seen at present, will be large. Any present estimates of the outturn are premature, though some people talk of 10,000 cases. The market is quiet, at 7s. 6d. to 7s. 7d., f.o.b., nominal, there being neither buyers nor sellers at this parity.

**OPIUM ALKALOIDS.**—In sympathy with the decline in opium, the manufacturers of opium alkaloids have this week reduced their quotations: *Morphia* is 2d. lower, the present quotation being: for powder 4s. 5d. per oz. for 1,000-oz. lots, and 4s. 7d. for smaller wholesale quantities; for crystals, 4s. 7d. and 4s. 9d. respectively. *Codeia* has been reduced from 6d. to 9d. per oz., according to brand, the present quotation being 10s. 9d. per oz.

**QUICKSILVER.**—Much firmer. The importers' price remains at 6l. 15s. per bottle, and in *second hand* nothing can be had below 6l. 14s. It is very likely that there may shortly be a further rise, followed by an advance in mercurials.

**QUININE.**—A very firm market. For a few thousand ounces of second-hand German bulk 1s. per oz. is said to have been paid a few days ago, and that appears at present to be the lowest quotation.

**SENEGA-ROOT.**—Fairly steady at 1s. 5d. per lb. for good quality.

**SHELLAC** has been in improved demand, but no public sales have been held this week. Since the holidays about 500 cases have been sold for delivery at 110s. for T.N. *orange* May-June and July. Business is also being done for arrival at 106s. for April-June, and 105s. 6d. to 106s. May-July, c.i.f.

**SOY (CHINESE)** is from ½d. to 1d. dearer; 10½d. to 11d. per gallon being asked.

**STAR-ANISE.**—Very dull of sale. Nominally the price is 70s. per cwt. for good, genuine *Chinese*, but it would probably be possible to buy at 67s. 6d. per cwt.

**TEA.**—The tea market has been practically closed since the holidays and no sales will be held till Monday; but there is rather a better feeling all round, and more doing in the country than is sometimes the case at Easter, so that the sales will probably reopen fairly steadily. The absence of interest in the forthcoming Budget is very noticeable this year, and it is taken for granted that there will be no opportunity for remission of tea-duty this year at any rate. Dealers consequently have nothing like the accumulation of bonded stock waiting to be cleared after the Budget that they had last year. Even if, however, the unforeseen should happen, a sufficient interval is always given for working off duty-paid stock, so that it is quite unnecessary for retailers to inconvenience themselves by running down duty-paid stock almost to zero.

**TONGA-BEANS.**—Quiet at the following prices:—*Angostura* good bold frosted, nominally 7s. 6d. per lb. *Pará*, ordinary foxy to fair, 7d. to 10½d.; medium to good black, 1s. 4d. to 1s. 6d. per lb.

**WAX (JAPAN)** may be had in good pale squares on the spot at 27s. per cwt. There has been more business doing for arrival, 25s. 6d. c.i.f. April-May shipment have been paid, and there are said to be further buyers at that price. A transaction is also reported at 25s. 9d. per cwt. c.i.f. Liverpool. The advance is said to be due to the receipt of American orders.



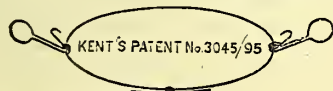
## Notes of Novelties.

### VELUTINA POLISHING-CLOTH.

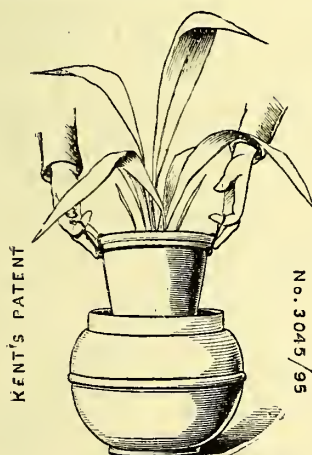
MESSRS. F. PARTINGTON & Co., of 42 Bow Lane, Cheap-side, E.C., have undertaken the agency for a new polishing-cloth, called the Velutina. This cloth is an excellent substitute for chamois leather, and it may be used for many household purposes, such as cleaning windows, polishing silverware, furniture, brassware—indeed, any article upon which a good shine is desired—and it has the estimable advantage of being washable. The cloth may also be used as a duster. We imagine that chemists at home and in the colonies will find a ready sale for "Velutina," especially as the makers produce it in six sizes, and do it up attractively. We understand that it yields a good profit.

### KENT'S FLOWER-POT LIFTER.

MESSRS. G. B. KENT & SONS, the well-known brush-makers, have patented an arrangement for lifting flower-pots in and out of their stands. This is the arrangement:—



And this shows it in operation:—



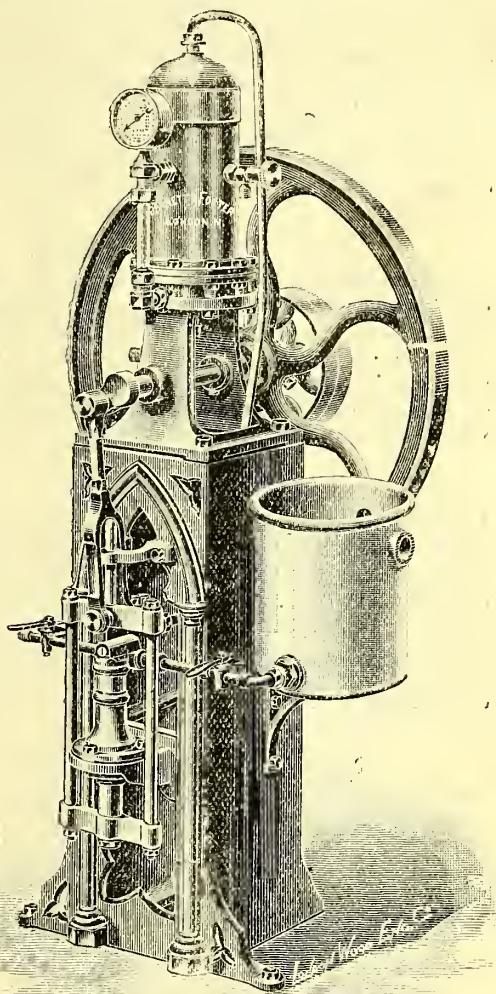
### ANOTHER INDUCEMENT.

THE difficulty of finding a novel attraction for such an old favourite as the marking-ink prepared by "the daughter of the late John Bond" must be great, but Mr. Hickisson is equal to it. The latest thing we have from him is a neat showcard in crimson and purple, which bears a dummy 1s. bottle of the ink and a sample of the linen-stretcher which is presented free with each bottle of the ink, in addition to the rubber stamp for which each purchaser gets a voucher. No wonder "the daughter of the late John Bond" is as fresh to each new generation of retailers as she was to some of us who gladly sold her ink when it cost more than 60s. a gross. We understand that the showcards are obtainable through wholesalers with supplies of ink, but any who have difficulty may communicate with the proprietor, at 75 Southgate Road, N.

### A NEW "NIAGARA."

MESSRS. BARNETT & FOSTER, Eagle Wharf Road, N., are making a new size, "Z," of their aerated-water machine, well

known as the "Niagara," the chief features of which are its automatic action and upright principle—characteristics which adapt it well for chemists' purposes. The "Z" machine, although the smallest automatic-aëration apparatus in the market, produces aerated beverages at the rate of 100 dozens per day by hand-power. Those who think of try-



ing what they can do in this department cannot begin better than with a "Niagara," for it does not mean additional premises, while it is so simple in action that they can with it fill up any spare moment and bottles at the same time. This particularly applies to country and colonial chemists, to whom the carriage on waters is a serious thing.

### ARMBRECHT'S GIFTS.

OUR great advertisers are not content nowadays with telling the world by lavish expenditure what good things they have to sell; but many of them are constantly on the look-out for something new to supply at less than cost-price, or probably to give away. It pays, we suppose; at any rate, it is hardly the business of the ordinary mortal to trouble himself on that point. It pays him, anyhow, to receive the benefits. Messrs. Armbrecht, Nelson & Co., the makers of the celebrated coca wine, are the benefactors whose liberality calls forth these remarks. These are what we find in their latest parcel: (1) A lot of cardboard cigar-cases with pretty designs on them, testifying to the merits of the famous coca wine; (2) some aluminium penholders, simi-

e & f



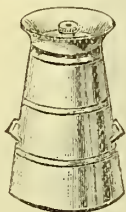
larly inscribed; (3) a monumental map of London, indicating by well-produced illustrations where we may find Messrs Armbrecht, Nelson & Co., and a great many other firms, and what their places look like when we do find them; and finally (4), a volume of 574 pages, entitled the "World Almanac, 1895," which contains an encyclopædia of current information, facts, and statistics, and only mentions the coca wine at the beginning and end. We are not sure what one has to do to deserve all these presents; but we notice that Messrs. Armbrecht, Nelson & Co. are advertising their desire to give away 1 and 2 to anyone who applies for them. We hope they will be abundantly assisted by our subscribers in carrying out their benevolent purposes.

#### A NEW VACCINATION-SHIELD.

THE pneumatic vaccination-shield is something new which chemists should look after. It is simply a pneumatic ring so arranged as to surround the pustules and protect them from the clothing. Cole's Pneumatic Shield Company (Limited), Dublin, are the makers, and the shields may be obtained from such firms as Edwards, Sanger, and Lynch, who are the agents.

#### FORDHAM'S NOVELTIES.

MESSRS. W. B. FORDHAM & SONS (LIMITED) may always be relied upon to provide something new, though their goods are sometimes not just the kind of things which an orthodox chemist would stock. Their two latest are figured below. The thing which looks like a milk-can is one of the table pepper-mills so common on the Continent, but of a new and attractive design. The other picture represents a cheap American bicycle-alarm, entitled the "Develine." It



is in the form of a whistle, but emits a sound which Messrs. Fordham describe as "hideous, unearthly, melodious, and soothing." It is not for us to reconcile their adjectives, which, we suppose, are offered to cyclists for selection.

#### Business Changes.

MR. JAMES TOMLINSON, chemist and druggist, 2 Tindall Square, Chelmsford, has just completed important alterations and improvements at his pharmacy.

MESSRS. THOMAS GLOVER & SON (Mr. Vincent Wood), Nottingham, have acquired the business of Mr. Thomas Huckerby, surgical elastic-hosiery manufacturer, Carlton, near Nottingham.

MESSRS. HEADLAND & Co. have removed their branch establishment in London Road, Brighton (which they took over from Mr. Arnold a short time since), to much larger and more convenient premises on the opposite side of the road.

AN INEFFECTUAL REMEDY.—Dulcie (whose temperance has just been taken): "Thank you, mam'mie; but it dce n't seem to do my head much good."

#### Personalities.

THE Battersea Vestry have increased the salary of Mr. C. E. Cassal, F.I.C., the public analyst, from 100*l.* to 200*l.* per annum, having regard to the order of the Vestry that the number of samples of food and drugs submitted for analysis is to be increased from 100 to 300 per year.

SOME time ago Mr. J. Lawson Johnston, of Sydenham, the Chairman of Bovril (Limited), was selected by the Liberals of the Dartford division of Kent as their Parliamentary candidate in opposition to Sir William Hart Dyke, M.P., the sitting member. Mr. Johnston has now decided, for reasons of health, to withdraw from the candidature.

MR. ALDERMAN DUCKWORTH, of Rochdale, the Liberal candidate at Warwick, is the Chairman of Boots (Limited). He is the proprietor of a number of grocery-stores in Lancashire, and has been weaver, soldier, and town missionary. He has been twice Mayor of Rochdale, and is now President of the Annual Assembly of the United Methodist Free Churches.

MR. FRANK R. SQUIRE, of San Remo, last week received a very handsome scarf-pin of diamonds and sapphires from the Empress Frederick, which her Majesty describes as "a small token of her gratitude for all the help and kindness shown during the stay of their Majesties at San Remo." Mr. Squire had already received the appointment of "Hofapoteker" (German Court Chemist), and is also gazetted chemist to his Royal Highness the Prince of Wales.

THE *Athenæum* of April 13 gives some interesting particulars of the late Mr. Robert Fitch, F.S.A., who died at Norwich on April 4, whose death was noted in our obituary last week. He was, it is stated, a good instance of a man who made a reputation for himself as an antiquary and geologist by his own sagacity and force of character, without any of those social or educational advantages which are regarded as necessary conditions of success in life. Born at Ipswich in 1802, he was sent to the grammar-school of his native town, where he acquired a smattering of Latin and Greek, and was apprenticed to his brother, a chemist and druggist in a small way of business in the town. Subsequently he became an assistant in a shop in London, and in 1827 removed to Norwich, where he entered into partnership with his brother-in-law, Mr. Chambers, and where for the next sixty years he continued to serve behind the counter with the utmost regularity till some five or six years ago, when his health began to break down. To the last he might be seen any day wearing his large white apron and waiting on his customers as if he had no other thought than about small gains. Yet as early as 1844 he had been elected a Fellow of the Geological Society, and was already known as a vigilant and accomplished collector of local antiquities with a remarkably quick eye and a sound judgment. He was one of the founders of the Norfolk and Norwich Archæological Society, became its honorary secretary in 1859, and treasurer in 1872. He was one of the first who took a lively interest in the flint implements of the drift, and some of his best specimens have figured more than once in works upon the antiquity of man. His collection of medieval rings and seals, every one of which was picked up in the neighbourhood of Norwich, is large and valuable. He was in frequent communication with some of the most eminent men of science and antiquaries. In 1858 he was appointed a magistrate for the city of Norwich, and at the time of his death was the oldest magistrate on the bench. In 1867 he served the office of sheriff. He discharged the office of honorary curator of the museum, and drew up a catalogue of the antiquities gathered together there. In 1892, when he was compelled by advancing years to retire from business, he executed a deed of gift by which he presented his antiquarian and geological collections to the Norwich Museum, taking upon himself the whole expense of providing suitable cases, in which they are preserved and exhibited to the best advantage of visitors; and he directed that these should be kept together in a room adapted for their reception, and be called the 'Fitch Collection.'



## Practical Notes and Formulæ.

### ELASTIC CACAO-BUTTER BOUGIES.

KREMEL mentions in the *Pharm. Post* that flexible cacao-butter bougies can be made by mixing cocoa-butter with half its weight of powdered gum, adding the medicament, and massing with a drop of water for each 15 gr. of the mixture. Then mould in a press-machine.

### PHOSPHORUS PASTILLES.

THESE may be made, according to Kremel, by dissolving the phosphorus in cocoa-butter, then massing with cocoa-powder, and forming into pastilles, which should be covered with chocolate. It is better to coat the pastilles with tolu-varnish before putting on the chocolate coating.

### EFFERVESCING CITRATE OF IRON.

RONDE gives the following in *Pharm. Wochenschrift* for producing a yellow granular preparation:—

Ferri ammonio-cit.	..	..	..	3iiss.
Sodii bicarb.	..	..	..	3viiss.
Acidii citrici	..	..	..	3vj.
Pulv. sacch. alb.	..	..	..	3xv.

Mix the dry powders. Separately dissolve ferri am. cit. 3iiss. in aqua 5v., and acid. citric. 3iiss. in S.V.R. 3iij. Mix, and make the powder into a paste with the mixture and as much S.V.R. as is required. Rub this paste through a suitable-sized sieve, and dry the granules.

### ESSENCE FOR MULLED WINE.

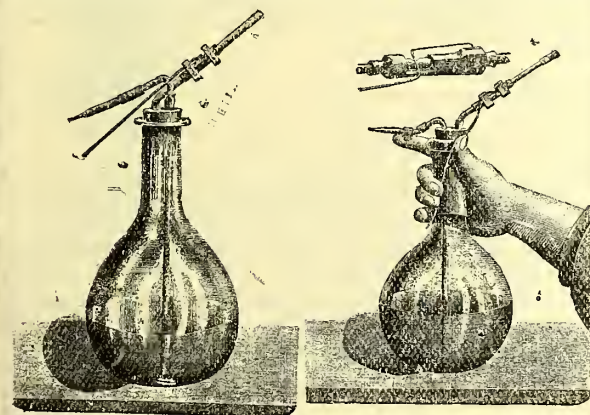
Tincture of orange	..	..	..	50 drops
Oil of lemon	..	..	..	10 "
Oil of cloves	..	..	..	2 "
Oil of cinnamon	..	..	..	2 "
Rectified spirit	..	..	..	3 oz.
Water	..	..	..	1½ "

Mix.

A dessertspoonful of this is added to a bottle of wine sufficiently sweetened.—*Drogisten Zeitung*.

### A NEW WASH-BOTTLE.

THE wash-bottle shown in the subjoined engravings is one designed by Mr. Geo. C. James, who states in the *Scientific American* that he has used it for three years, and it has proved convenient. The first figure represents the bottle complete; the other shows it in use, and also shows



a large-scale view of the valve. Its construction is obvious. The wire crosses a piece of rubber tubing. When the wire is depressed it squeezes the tubing against the wooden block on which it is mounted, and thus closes it valve-fashion. The middle finger controls the wire of the valve, allowing the free use of the first finger to direct the stream—a great improvement on other similar apparatus. When the bottle is reversed, the middle finger also controls the stream issuing from the mouth-tube—a very convenient feature. After a short use of the bottle one soon becomes accustomed to the mechanism, so that the mouth and hand work together. The air-chamber ordinarily above the water is sufficient to eject the water for five or ten minutes, and

with the hot-water bottle it is only necessary to shake the water, and the steam liberated is ample to force the water from the top. Another great advantage is that one runs no risk of burning the mouth, as the valve prevents the steam returning until the mouth is removed.

### DULCIN AND OILS.

EXPERIMENTS recently made in Germany on the solubility of dulcin (Riedel's saccharin) in oils show that it varies from 1 part in 267 parts of castor oil to 1 in 822 parts of cod-liver oil. Ol. arachidis is quite an exception, for 17,857 parts of it are required to dissolve 1 part of dulcin.

### DANDRUFF-POMADE.

Pilocarpine	..	..	..	..	5ss.
Quinine hydrochlorate	..	..	..	..	5j.
Precipitated sulphur	..	..	..	..	3iiss.
Peruvian balsam	..	..	..	..	5v.
Ox-bone marrow	..	..	..	..	3iij.

Make a pomade.

This is rather an expensive, but seemingly effective, article, proposed by the *Pharm. Zeitung*.

### EMULSION OF COD-LIVER OIL.

MR. CHARLES HOUSER, Flat River, Mo., contributes to the *Pharmaceutical Era* the following formula, which he says he has used with success for years:—

First make a mucilage by taking—

Powdered gum arabic	..	..	..	3iiss.
White of egg	..	..	..	3ij.
Glycerine	..	..	..	5j.
Salicylic acid	..	..	..	gr. j.

Rub thoroughly until smooth and free from lumps; add 8 fl. oz. of cod-liver oil, in small portions at a time, and finally 4 oz. of water, in divided portions, and in which the soluble salts, if required, have been previously dissolved.

The only precaution to be observed is in the addition of the oil, which must be used in small and divided portions. The salicylic acid may be replaced by a small quantity of oil of wintergreen. For a general flavour, the following he finds to be about the best:—

	Drops.
Oil of bitter almonds	..
„ coriander	..
„ sassafras	..

### SYRUP. FERRI OXIDATI SACCHARATI.

Sol. ferri perchlor. (s.g. 1.48)	..	..	3iiss.
Sol. sodæ (s.g. 1.333)	..	..	q.s.

Mix to precipitate ferric hydroxide, and wash the precipitate well with water; then mix the magma with—

Sacchar. alb.	..	..	3iiss.
Sol. sodæ (s.g. 1.333)	..	..	5j.

Make a clear solution as directed under syr. mangan. ox. sacch., page 223, and add water to bring the whole to 5 oz. in weight.

### SYR. FERRO-MANGANI SACCHARATI.

Syr. ferri ox. sacch.	..	..	3viij.
Syr. mangani ox. sacch.	..	..	5ij.
Spt. vini gallici	..	..	3x.
S.V.R.	..	..	3x.
Tr. aurantii	..	..	5j.
Tr. aromat.	..	..	℥xxx.
Tr. cinnamom.	..	..	℥xv.
Essent. vanille	..	..	℥xv.
Ether. acetic	..	..	℥v.
Aq. ad	..	..	3xxxvj.

M.

—After GERHARD (*Apoth. Zeit.*).

### AMIDO-PHENOLS AS HAIR-DYES.

THE use of amido-phenols as hair-dyes is advocated in France. These bodies, particularly the salts of meta-phenylenediamine and diamido-phenol, like pyrogallol, rapidly undergo oxidation when their solutions are exposed to the air, with the formation of coloured bodies which dye the hair. In a patent taken out in this country by Lumière, the dye is prepared by dissolving the hydrochlorate or other salt of diamido-phenol in dilute alcohol, adding sodium sulphite to prevent too rapid oxidation. By varying the strength, various shades of dye are obtained.



## Chemists' Conundrums.

CONTRIBUTED IN THE JANUARY POSTCARD COMPETITION.

What essence is most agreeable to a gentleman popping the question?—Acqui(aque)sence.—Arthur H. Mould.

Why is the second best joke sent in to this competition like a medicine-bottle?—Because 'tis capped.—E. A. Mason.

In what way do aconite and nitre resemble the Chinese army?—Because they are feb. refugees.—A. Pratt.

Why do most of our pills resemble catholics?—Because they are accustomed to go to mass.—A. Pratt.

Why are chemists and alchemists both of the feminine gender?—Because one is an analyser (Ann Eliza) and the other a charlatan (Charlotte Ann).—George Brown, jun.

Why is a party of sailors at the Derby like mag. sulph.?—Because they are Epsom salts.—Mrs. Parkin.

What name is the most suitable for a chemist's dog, and why?—Tonic, because it is a mixture of bark, steel (steal), and wine (whine).—G. W. Brown.

Why is it unsafe to argue with a chemist?—Because he always has a retort.—G. W. Brown.

I give a cold; I cure it; better still,  
When it is cured, I pay the doctor's bill.  
—Draught.—Cymru.

Which is the longest preparation in the B.P.?—Glycerinum amyli (a mile high).—W. Greenwood.

What remark did the man make whose arm was caught in the drug-mill while grinding nutmegs?—I've crushed my wrist, I see (*Myristice*).—W. Greenwood.

Why is a chemist like the whale that swallowed Jonah?—Because he gets a great profit (prophet) out of the water.—Saxon.

Why is a piano like a valerian pill?—Because it's melodious (smell odious).—Charles A. Pratt.

Why is administering Epsom salts to Lord Salisbury like running away with another man's wife?—Because it is one way to purge a Tory (purgatory).—P. B.

Why is a dose of croton oil like a broken-winded horse?—Because it won't "stay" with you.—P. B.

Why is a chemist like a confectioner?—Because he sells pies an' things.—W. H. Vernon.

When is ipecacuanha wine like a "bully"?—When it is employed as a "chucker out."—C. G. B.

Why is mindererus spirit like a seltzogene?—Because we think of it in connection with fever (*Fèvre*).—C. G. B.

What smells most in a chemist's shop?—Your nose.—Jos. Jones.

Why would a Cockney consider Edwards's "Harlene" to resemble a poet?—Because it gives to "airy nothings a local habitation and a name."—E. U. Mason.

Why is a pharmacy like a photographic album?—Because it contains various liniments (lineaments).—(Miss) B. M. Mason.

Why are the Rothschilds like the weather?—Because they influence the mercury.—P. B.

Who, among French diplomatic officials, is the analogue of Gregory's mixture?—The Minister to the Interior.—P. B.

Why is the dose of an emetic like a cash business?—Because in both cases quick returns are expected from the system.—Charles A. Bentley.

Why should dulcamara never be prescribed with quassia?—Because it's batter sweet (bittersweet).—Charles A. Bentley.

Why is a youngster's howl like oleum betulae?—Because it is a product of the birch.—Charles A. Bentley.

Why is succus limonis an expletive?—Because it's "the deuce" expressed (juice expressed).—Charles A. Bentley.

Which was the most fashionable drug in the reign of George IV.?—Bran Nash (bone ash).—Charles A. Bentley.

What is the difference between the fortunate winner of this competition and a person troubled with a kidney-disease?—One receives a guinea for his pains and the other takes a gin, eh! for his pains.—R. Barker.

Why should the Pharmaceutical Council make the best and cheapest battalion for Her Majesty's army?—Because they have a young Tommy Atkins and A. Bottle which Warren(ts) them to Cross harassing (Harrison) Hills, march in dale (Martindale), stand Grose insults without a sou at all (Southall), and not get shot (Schacht) before carting (Carteigheing) the handsome (Hampson) news-home (Newsholme).—R. Barker.

Which is the most ungrammatical name in the B.P.?—Ergot. It should be "she got."—R. Barker.

What is the difference between castor oil and the residue left after the distillation of the oil of turpentine?—One is ol. ricini and the other is all resinæ.—R. Barker.

What B.P. drug names ought a chemist to make use of if he should happen to be in a crush in which some ladies are fainting?—Alumen exsiccatum, extract hemlock, and lettuce and serum (All you men extricate them, extract their hemmed locks, and let us save them).—R. Barker.

What is the difference between an idle doctor and a young man being examined by Mr. Druce?—One lets the materia medica go to the deuce and the other goes to Druce for materia medica.—R. Barker.

Why should seafaring men reject mist. ferri aromat. from their medicine-chests?—Because it contains seven ingredients and even one of these will sink any bark (cinchona bark).—R. Barker.

What is the difference between the Scottish Examining Board and a rabbit just entering its hole?—One sits in Edinburgh and the other sits with head in burrow.—R. Barker.

What salt of mercury belongs to a beast?—The oxide (ox-hide).—R. Barker.

What is the difference between the President's visit to the Manchester Pharmaceutical Association ball and a particular sized photograph?—One is a visit de Carteighe and the other a carte de visite.—R. Barker.

Why is Barbadoes aloes like an animal?—Because it has a loin (aloin) in it.—R. Barker.

Why is the C. & D. so up to date with news?—Because it comes out of a Cannon straight (street), ye see (E.C.).—R. Barker.

What toilet preparation should a lady name when an admirer attempts to kiss her?—O don't O!—E. U. Mason.

When is a pharmacist like a punkah?—When he makes a cooling draught.—(Mrs.) E. M. Mascn.

When is a physician's prescription like a favourite clown?—When it is made up, goes down, and is acknowledged a perfect cure.—E. U. Mason.

Why are Becham's pills like a countryman paying a visit to London?—Because they are very often taken in.—Revoll

If the inhabitants of Trafalgar Square unanimously believed that all taxes would be repealed this year, what drug would Trafalgar Square resemble?—Sanguine area.—W. H. Vernon.

Why should the public never trust a chemist?—Because he dispenses with accuracy and honesty.—W. H. Vernon.

If a beautiful girl down an orange-grove came,  
What drug would the ripe fruit probably name?—  
Suck us, bella donna.  
—W. H. Vernon.

If the stores opened next door to an old established drug-firm, what plant would they resemble?—Co. nigh 'em.—W. H. Vernon.

What chemicals are best for protecting the feet?—The ox-hides.—W. H. Vernon.

If a woman began a fortnight's wash after supper, what chemical would the ceremony resemble?—Night rite of copper?—W. H. Vernon.



## Laboratory Motors.

THE use of mechanical aids for the various operations which are performed in chemical and pharmaceutical laboratories has not become general in this country, chiefly because there has not been offered to the trade any motor sufficiently simple and inexpensive which can be adapted for work on the small scale. Small water-motors are obtainable at a comparatively low price, but even when such

course, the hot-air motor is a more powerful one. The illustrations exhibit some of the possibilities in mechanical contrivances. No. 1 arrangement in the illustration is a shaking-machine, for making solutions of solids in water, for making emulsions, or for any other purpose in which long and continuous shaking is necessary. No. 2 is a box sieve; No. 3 a ball-mill, which can be used for making ointments, grey powder, and generally for levigating purposes. Next is a small centrifugal separator, which is used for freeing crystals from their mother liquor. This is an exceedingly useful little apparatus, for which there are many uses in

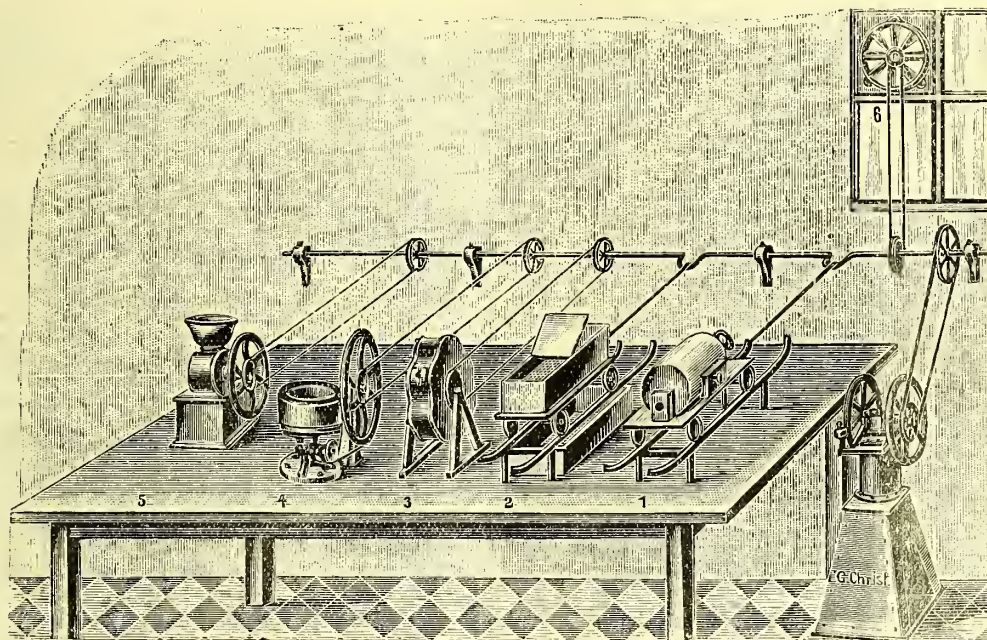


FIG. 1.

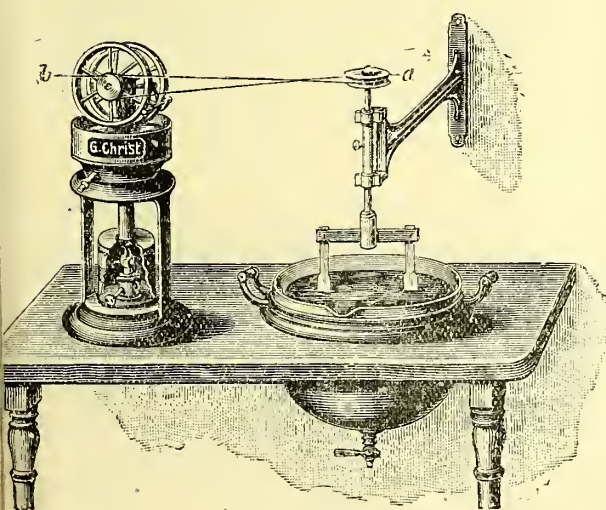


FIG. 2.

a motor is installed, the question remains, What may it be used for? In answer to that we figure here some useful pieces of apparatus described in the *Pharmaceutische Zeitung*. The hot-air motor is exhibited in the second figure. Here a spirit-lamp suffices to work the motor, the essential parts of which are a rod and piston moving in a cylinder, and actuating an arrangement whereby the wheels at *b* move with amazing rapidity, and with good force. In the illustration, fig. 2, the force is employed to work a stirrer of the conventional pattern, but it would also serve for many other purposes, some of which are exhibited in fig. 1. Here, of

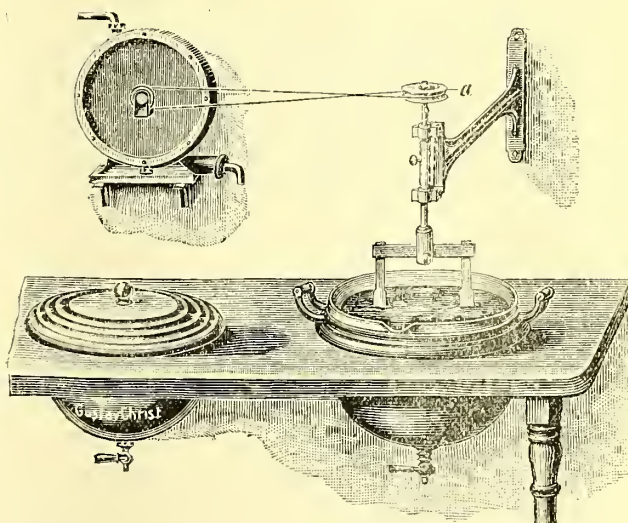


FIG. 3.

pharmacy. No. 5 is an ordinary grinding-mill. It will be seen that the power of the hot-air motor is also utilised at No. 6 for ventilating-purposes.

In fig. 3 we show a water-turbine or motor, and the method of using the power obtained from it. The turbines are small, but exceedingly powerful, and when water-supply can be got direct from the main they are, perhaps, even more useful, and certainly involve less attention than hot-air motors. We are indebted to Mr. Gustav Christ, Berlin, manufacturer of pharmaceutical apparatus, for the engravings used in this note.



## Shops (Early Closing) Bill.

(Proposed and brought into the House of Commons by Sir John Lubbock, Mr. Chamberlain, Colonel Bridgeman, Mr. Cameron Corbett, Mr. C. Fenwick, Mr. Field, Mr. Kearley, and Mr. Mather.) Read a second time February 19, 1895, and referred to a Select Committee.

THE following are the principal clauses of the Bill as read a second time in the House of Commons:—

1.—(1) If an application in writing is served on the local authority of any district, praying that, as regards all shops or any class of shops within the district, or any part of the district, belonging to any class or classes not mentioned in the schedule to this Act, an order may be made for the closing of such shops on each day or any specified day or days of the week at such hour or hours, not earlier than the hours hereafter in this section mentioned, as may be specified in the application, and if the local authority are satisfied that the application is signed by not less than two-thirds in number of the occupiers of shops within the district belonging to the class or to each of the classes to which the application relates, the local authority may if they see fit make an order giving effect to the application.

(2) The hour to be fixed for the closing of shops in pursuance of this section may on any one specified day of the week be any hour not earlier than *one* o'clock in the afternoon, but save as aforesaid shall not on any day be earlier than *six* o'clock in the evening.

2. With respect to an order of a local authority under this Act the following provisions shall have effect; that is say,—

(1) The order shall take effect at a date named therein, being not less than *one* nor more than *two months* after the making thereof, and shall before that date be published in such manner as to the local authority making the order may appear best fitted to insure publicity for the same, and on and after that date the order shall have effect as if it were enacted in this Act:

(2) The order shall (if the application to the local authority contain such limitation) be expressed to have effect only during any specified part or parts of the year, and shall have effect accordingly, but, unless so limited, shall have effect throughout the year until revoked:

(3) The central authority shall make regulations as to the form of such orders and of applications for the same, and as to the evidence to be produced respecting the proportion of persons signing such applications, and as to the classification of shops for the purposes of this Act; and any such regulations shall be published in such a manner as the authority making the same may direct, and shall be duly observed.

3. [Provision as to amendment and revocation of order when the local authority is satisfied that more than one-third of the trade affected is opposed to it.]

4. If any question arises as to the classification of shops or trades for the purposes of this Act, or whether any particular shop or shops is or are included in any class to which any of the provisions of this Act or any application or order under this Act extends, such question may be referred to the central authority, whose decision on such question shall be final.

5. A shop in which trades of two or more classes are carried on shall be closed for the purpose of all such trades at the hour at which it is by any order made under this Act required to be closed for the purpose of any of them.

6. Where a shop is open after the hour at which it is required by an order made under this Act to be closed, the occupier of such shop shall be liable to a fine not exceeding *five shillings*, and in case of a second conviction not exceeding *twenty shillings*, and in case of a third or subsequent conviction not exceeding *five pounds*.

7.—(1) Where an offence for which the occupier of a shop is liable under this Act to a fine has in fact been committed by some agent or servant of such occupier, such agent or servant shall be liable to the same fine as if he were the occupier.

(2) Where the occupier of a shop is charged with an

offence against this Act or any order made thereunder, he shall be entitled, upon information duly laid by him, to have any agent or servant whom he charges as the actual offender brought before the court at the time appointed for hearing the charge; and if after the commission of the offence has been proved the court is satisfied that the occupier had used due diligence to enforce the execution of this Act and the said order, and that the agent or servant committed the offence in question without the knowledge, consent, or connivance of the occupier, the agent or servant shall be convicted of the offence, and the occupier shall be exempt from any fine.

8. [Describes proceedings for enforcement of Act.]

9. A pharmaceutical chemist or chemist and druggist shall not be liable to any fine under this Act for supplying medicines, drugs, or medical appliances after the hour appointed by an order made under this Act for the closing of shops; but this section shall not be deemed to authorise a pharmaceutical chemist or chemist and druggist to keep open shop after the said hour.

10. Nothing in this Act or in any order made thereunder shall render the occupier of any premises liable to a fine for supplying any article to any person lodging in such premises.

11. [Explains method of service of application on local authority.]

12. [Defines terms, among which]

"Shop" means any building or portion of a building, booth, stall, or place where goods are exposed or offered for sale by retail, and includes a place where the business of a barber is carried on:

"Closed" means not open for the serving of any customer: provided that nothing in this Act or any order made thereunder shall be deemed to render unlawful the continuance in a shop after the hour appointed for the closing thereof of any customers who were in the shop immediately before that hour, or the serving of such customers during their continuance therein.

13 and 14 fix date for commencement of Act and give its short title.

To test the opinion of chemists regarding the above Bill, we are now issuing stamped voting cards to all retail chemists in business (as far as we know them) in Birmingham, Brighton, and Liverpool. The opinions of chemists in other places will be welcome. We ask them to state simply whether they approve or disapprove of the principle of the Bill; and in the former case whether they would vote for closing on, say, five days per week at 7, 8, or 9 P.M., and for a weekly half-holiday.

## Glasgow on Pharmacopœia Revision.

THE Glasgow and West of Scotland Pharmaceutical Association, having been invited by the General Medical Council to submit suggestions regarding the revision of the British Pharmacopœia, appointed a committee to draw up a report, of which the following is the substance.

*Weights and Measures.*—Equivalents in metric weights and volumes should be stated throughout the formulæ.

*Withdrawals.*—Weeding-out should err in being overdone rather than underdone, whereby a better knowledge of what is retained must result, to the advantage of the Pharmacopœia, of the younger physicians, and of students of medicine.

Here follows a list of about a hundred substances and preparations which the Association recommends to be omitted.

*Alterations.*—The following improved formulæ are suggested:—

### Mistura Cretæ.

Cumulus powder of chalk	..	..	..	55 gr.
Cinnamon-water	..	..	..	1 oz.

Mix by trituration.

### Mistura Guaiaci

Compound powder of guaiacum	..	..	..	55 gr.
Cinnamon-water	..	..	..	1 oz.

Mix by trituration, adding the cinnamon-water gradually.



*Tinctura Zingiberis.*

	Parts
Strong tincture of ginger .. .. .	2
Rectified spirit .. .. .	6

*Pulvis Creta Gummosus.*

	Parts
Prepared chalk .. .. .	1
Powdered acacia .. .. .	1
„ sugar .. .. .	2

Mix.

*Pulvis Guaiaci Compositus.*

	Parts
Guaiac. resin (in powder) .. .. .	2
Powdered sugar .. .. .	2
„ acacia .. .. .	1

Mix.

*Citrat. Caffeina Effervescent.*

	Parts
Citrated caffeine .. .. .	4
Bicarbonate sodium .. .. .	46
Tartaric acid .. .. .	24
Citric acid .. .. .	16
Sugar .. .. .	10

100

M.S.A.

*Iodide of Potassium Ointment.*

Iodide of potassium .. .. .	64 gr.
Hyposulphite of sodium .. .. .	1 „
Glycerine .. .. .	1 dr.
Benzoated lard .. .. .	1 oz.
Water .. .. .	5 minims

Triturate the iodide with the glycerine, add the benz. lard, and lastly the hyposulphite dissolved in the water, and mix thoroughly.

*Oleate of Mercury.*

	Oz.
Red oxide of mercury .. .. .	1
Oleic acid .. .. .	2½
White petroleum jelly .. .. .	1½

Add the oxide to the acid at a steam-bath temperature, and, after combination, add the vaseline.

Dilute with acid, oleic, or paraffin. melle alb., according as an oleate or an ointment is ordered.

*Syrups.*

Cane-sugar always to be used. To have the sugar in the proportion of not more than 32 to 17 of fluid, as 2 in 1 is supersaturated.

*Syrup of Squills.*

	Oz.
Vinegar of squills (1 in 6) .. .. .	12
Water .. .. .	5
Sugar .. .. .	32

Dissolve with a gentle heat.

Amongst additions suggested are acetanilide (!), hypophosphorous acid s.g. 1.136, lactic acid s.g. 1.220, bismuth salicylate, syrup. hypophosphitum compositus, syr. ferri phosphatis c. quininæ et strychninæ, and elixirs to replace syrups of senna and rhubarb.

Several suggestions are submitted bearing upon minor details in preparing galenicals. The report concludes with a *Desideratum*—viz., a pocket edition of the Pharmacopœia, with flexible binding, containing only formulæ and doses, arranged under the head of the drug or chemical which gives name to the article (as in Squire's "Companion"), for the use of medical practitioners.

**DUTCH CHEMICAL DIVIDENDS.**—At the general meeting of shareholders in the Pharmaceutical Trading Company of Amsterdam, formerly A. d'Ailly & Zouen and Mastenbroek & Gallenkamp, it was decided to distribute a dividend of 7 per cent. for 1894. Dr. J. E. de Vry took the chair at the annual general meeting of the shareholders in the *Amsterdamsche Chinine-fabriek* (Amsterdam Quinine-works) on April 10, when a fairly satisfactory account was given of the position and prospects of the factory. The total sales of quinine by the factory had been a little smaller in 1894 than in 1893, but owing to the somewhat more favourable position of the market in 1894 a moderate profit had been made, admitting of the distribution of a 5-per-cent dividend on ordinary shares.

**New Companies and Company News.**

**PRITCHARDS (LIMITED).**—Capital, 5,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with John Pritchard, of 71 and 73 High Street, Cheadle, Cheshire, and to carry on the business of dispensing and family chemists, wholesale druggists and drysalers, manufacturers and packers of druggists' sundries and proprietary articles, sauce and pickle manufacturers, &c. The first subscribers (who each take one share) are:—J. Pritchard, chemist and druggist, J. G. Pritchard, manager, Mrs. M. A. Pritchard, and Miss M. M. Pritchard, all of 71 and 73 High Street, Cheadle; W. Pritchard, clerk, and Mrs. J. E. H. Pritchard, of 232 Stockport Road, Cheadle; H. B. Tierney, clerk, and Mrs. J. A. Tierney, of 123 Gatley Road, Cheadle. The first directors (to number not less than two nor more than five) are John Pritchard (managing director), Joshua G. Pritchard, and W. Pritchard (the last two will succeed the managing director in the order stated). Qualification, 100*l.* Registered office, 71 and 73 High Street, Cheadle, Cheshire.

**WESTON & CO. (LIMITED).**—Capital, 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drysalers, patent-medicine and proprietary-article manufacturers and vendors, mineral and aerated-water manufacturers and merchants, &c. The first subscribers (who each take one share) are:—C. T. Weston, chemist and druggist, and Mrs. C. T. Weston, 166 Burton Road, Derby; M. Weston, 24 Bass Street, Derby, solicitor; S. Lambert, 1 Harcourt Street, Derby, cashier; T. J. Clarke, 6 Western Road, Derby, chemist and druggist; William Wyles and Albert Wyles, East Street, Derby, boot factors. Registered without articles of association.

**PERRY'S POWDERS (LIMITED).**—Capital 20,000*l.*, in 1*l.* shares (19,900 10*l.* per cent. cumulative Preference and 100 Founders'). Objects: To purchase, or otherwise acquire, the business of making and selling the two patent or proprietary medicines known as "Perry's teething-powders for children" and "Perry's pills," and of a wholesale and retail chemist and druggist and dentist, carried on by Thomas Child, at 82 Wellington Road, Leeds, under the style or firm of "Perry & Co.," and to enter into an agreement with the said vendor. The first subscribers (who each take one share) are: T. Child, Harrogate, chemist and dentist; Thomas Chamberlain, Leeds, traveller; John H. Heworth, Goole, clerk; George W. Cross, Goole, grocer; George H. Hunter, Leeds, traveller; Mrs. Harriet Priestley, Leeds; Mrs. Elizabeth Parker, Leeds; Joseph A. Sowry, Leeds, traveller. Thomas Child is to be managing director, chairman, and secretary so long as he holds 3,000 fully-paid shares. Remuneration 150*l.* per annum, payable weekly. Registered office, 82 Wellington Road, Leeds.

**JOHN BARKER & CO.**—The final meeting of the shareholders in this concern has been called for May 17 at the offices, 71 High Street, Kensington, when W. Walter Read, the liquidator, will present his accounts. The company was registered as an unlimited company on July 21, 1888, to carry on the business of chemists, druggists, and dealers in patent-medicines, mineral-waters and proprietary articles. Its nominal capital of 4,000*l.*, in 1*l.* shares, was fully subscribed, and 10*s.* per share was called and paid, of which 2,670 were held by John Barker. The resolution for the sale of the company's business, and for the voluntary liquidation of the concern, was passed on May 9, and on June 25, the liquidator gave his permission for the incorporation of John Barker & Co. (Limited).

**JOHN BARKER & CO. (LIMITED).**—The report for the first trading year ending February 28 states that the progress of the business continues in every way satisfactory, and the trade shows a substantial increase. The gross profits amounted to 114,207*l.*, from which the current expenses have to be deducted, leaving 43,165*l.* to be dealt with. The directors have written off 1,465*l.* for depreciation of fixtures, furniture, &c., have set aside 333*l.* for redemption of leasehold properties, and have made full provision for all bad and doubtful debts. The sum of 3,500*l.* has been placed to reserve



and it is recommended that a dividend of 11 per cent. per annum on the ordinary and 7s. 7d. per share upon the management shares be paid.

**HENRY CROUCH (LIMITED).**—The final meeting in connection with the winding-up of this company has been called by the liquidator for May 10 at 14 Suffolk House, Laurence Pountney Hill, E.C., when it is intended to close the liquidation accounts. The concern was registered on March 6, 1886, with a capital of 5,000*l.*, in 1*l.* shares, to acquire and carry on the business of a microscope and scientific-instrument manufacturer, formerly carried on by P. Henry Crouch, and then by John Ashby at 66 Barbican, London, E.C., as "Henry Crouch." According to the last return, 3,600 shares were taken up, of which 350 were issued as fully-paid, and in consequence of a call of 1*l.* per share on the remainder 3,060*l.* had been paid, leaving 190*l.* in arrears. The resolution for voluntary liquidation was passed on May 4, 1893.

**DE SOULE'S ELIXIR SYNDICATE (LIMITED).**—At a meeting of the members of this company, held at 30 Moorgate Street, London, E.C., on March 23, it was resolved that the concern could not continue its business on account of its liabilities, and therefore voluntary liquidation was desirable, and Francis G. Fuke, of 36 Lime Street, E.C., was appointed liquidator. The company was registered on February 7, 1894, with a capital of 10,000*l.*, in 5*l.* shares, to acquire the right to make and sell in the United Kingdom the medicine known as "De Soule's Elixir," and to carry on business as patent-medicine vendors. C. Tweed Russell was the vendor, and sold his rights for 8,000*l.* in shares, guaranteeing to take up or get taken up the remaining 400. The last return, filed April 8 last, shows that only the seven signatories' shares were subscribed for, and nothing had been called on them, in addition to the fully-paid vendor's shares.

**MIDLAND OIL COMPANY (LIMITED).**—A petition for the winding-up of this company by the Liverpool County Court was presented by the Anglo-American Oil Company (Limited), of 13 St. Ann's Street, Manchester, on April 5, and the same is directed to be heard on April 26. The concern was registered on June 30, 1881, under the style of "Nichols' Al Horse and Cattle Spice Company (Limited)," with a capital of 2,000*l.*, in 1*l.* shares, to carry on the business of horse, cattle and poultry spice manufacturers. In April, 1882, the name was changed to "Nichols & Co. (Limited)," and in June, 1890, to its present title. The capital has been raised to 20,000*l.*, in 5*l.* shares. The return, filed on April 8 last, shows that 1,027 shares have been taken up, and paid for in full, in addition to 210*l.* paid on forty-two forfeited shares. Registered office, Vauxhall Road, Liverpool.

**WHITE SOFT SOAP COMPANY (LIMITED).**—The liquidator of this concern has called the final meeting of the shareholders for May 24 at the offices, 4 Harrington Street, Liverpool. The company was registered on July 14, 1890, with a capital of 3,000*l.* divided into 285 ordinary shares of 5*l.* each, and 63 7*l.* per cent. preference shares of 25*l.* each, to enter into an agreement with Miles Williams, and to carry on the business of manufacturers of and dealers in hard and soft soap, chemicals, &c. At the time of the last return (August 14, 1891) 261 ordinary shares were taken up, and 95 were issued as fully paid, the full amount being called and paid on the remainder. The resolution for voluntary liquidation was passed on December 23, 1891.

**BELL, GORDON & CO. (LIMITED).**—It having been proved to their satisfaction that this company could not by reason of its liabilities continue its business, the members met on April 2, and passed a resolution for voluntarily winding-up, and at the same meeting appointed Frederick Phillips, of 292 Borough High Street, Southwark, the liquidator. The concern was registered on March 19, 1890, with a capital of 28,000*l.*, in 1*l.* shares, to carry on the business of wine and spirit merchants, manufacturing wholesale and retail chemists and druggists, druggists' sundriesmen, mineral-water manufacturers, &c. 26,320 shares have been taken up, of which 24,000 were issued as fully paid. The full amount has been called and paid on the remainder. Henry L. Phillips, Chairman, of 57 Moorgate Street, E.C., holds 21,390 of these. Registered office, 84 and 85 Cannon Street Buildings, London, E.C.

## Recent Patents.

### Ointment.

17,203. 1893. Anning, J. J., 8 Grosvenor Place, Leeds.

An iodine-ointment is prepared by dissolving iodine in oleic acid.

### Medicine.

17,665. 1893. Howard, J., 11 Elizabeth Terrace, Cork.

A medicine which acts as a gentle purgative is prepared by mixing together burned loaf-sugar, 16 oz.; sugar candy, 16 oz.; liquorice-root, 2 oz.; ground ginger, 2 oz.; essence of dandelion, 2 oz.; Epsom salts, 2 oz.; and boiled water, 2 pints; and heating to the boiling point.

### Caffeine Sulphonates.

16 949. 1893. Imray, O., Southampton Buildings, Chancery Lane, London.

Bromo-caffeine, or chloro-caffeine, is heated with an aqueous solution of a neutral sulphite, such as sodium sulphite, at 150° C. in a digester for about eight hours. The caffeine sulphonate mostly separates on cooling, and is completely precipitated by evaporating or by common salt. It is purified by dissolving in hot water, filtering, evaporating, and boiling the crystals with alcohol, in which they are insoluble.

### Salicylic Acid.

17 002. 1893. Marasse, S., 19 Schulzendorferstrasse, Berlin, N.

Salicylic acid, in the form of its potassium salt, is produced by acting upon a mixture of phenol and a sufficient excess of potassium carbonate to prevent caking, at 120° to 160° C, with carbonic-acid gas. The reaction proceeds in the usual way with the liberation of H<sub>2</sub>O. The acid is then liberated by means of a mineral acid, and purified by recrystallisation in the usual manner.

### Hair Removing.

18,658. Mellinger, J., 2,510 Madison Avenue, Baltimore, Maryland, U.S.A.

A soap for removing hair is prepared as follows:—Certain quantities of tallow and cocoa-nut oil are melted in a copper vessel, oil of riccini (*sic*) and glycerine are mixed in, and the mass is allowed to cool and lye is added. Meanwhile, sulph-hydrate of sodium dissolved in water is mixed with starch (previously dissolved in boiling water), the mixture is evaporated to one-third of its volume and is then incorporated with the mass in the copper vessel, and oil of citronella or other perfume is added.

### Cholesterin, &c.

20,639. 1893. Krause, L., and Mayer, J., Wittenberg, Prussia.

Method for the preparation of fatty acids and cholesterin from crude wool grease by fractional distillation. The crude wool-grease is heated in a roomy still which communicates through a wide pipe with a wider vertical pipe, the upper end of which is open for the escape of gaseous products. The free fatty acids first distil over and are condensed as a yellow oil, afterwards the cholesterin comes over as a blackish-brown product. The fatty acids may be used in the manufacture of soap, and the cholesterin as a substitute for cerisin in the preparation of grease for treating leather.

### Medicine Time-indicators, &c.

21,031. 1893. Room, A., 47 Cannon Street, London.

Relates to a dial or tablet for indicating the time at which any duty or function, such as the taking of a dose of medicine, should be performed. The dial may be formed of metal, cardboard, &c., and is provided with a pointer or hand, the end of which is bent over so as to prevent too easy movement. A clip, hinged to the back of the dial, serves to attach it to the neck of a bottle, but a pin for insertion into the cork may also be employed. The provisional specification states that some part of the dial or tablet may be used for advertising.





### Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications, with, if desired, a distinctive nom-de-plume.

### The Shop Hours Acts, 1892 to 1895, and the Shops (Early Closing) Bill.

SIR,—Our correspondence shows that confusion exists in the minds of shopkeepers in reference to these two measures, owing to both being before Parliament at the same time. The Shop Hours Act, 1895, simply amends the Shop Hours Act of 1892, which deals with the number of hours worked by young persons under 18, and limits them to seventy-four per week. It amends it in this way—that whereas no penalty hitherto existed for not displaying the statutory notice required to be shown by the Act, it will now be incumbent on shopkeepers to exhibit such notice under a penalty of 40s.

The Shops (Early Closing) Bill is a totally different measure, and when passed into law will give a two-thirds majority of shopkeepers power to compel the remaining one-third to close every night at such reasonable and suitable hour for any district as the majority shall decide. It will also give power to enact a weekly half-holiday. As power is vested in the shopkeepers themselves, and as small shopkeepers are everywhere in a majority, it will be seen that the Bill cannot operate injuriously to them, for it can only be put into operation with their consent, and may easily be revoked. It, therefore, goes without saying that their consent will be withheld if they deem it to be a measure injurious to their interests.

The Nottingham Congress clause excluding Saturday closing firms from the half-holiday section of the Bill does not appear, but this will be duly inserted later on.

As you were lately good enough to announce, we supply copies of Act and notice. Non-subscribers must enclose stamps (2d. single copies) for postage, &c.

I am, Sir, your obedient servant,

JAMES A. STACEY,

Secretary Early Closing Association.

21 New Bridge Street, E.C., April 17.

### A Friendly Call on an African Chief.

SIR,—Many of your readers may be interested in a slight sketch of a trip which I recently took, together with my family, to Basutoland. The first portion of the journey was from Jagersfontein to Wepener, by an (otherwise) empty transport-waggon. Here I found a very neat little chemist's shop, kept by Dr. Becker, the district surgeon, who, however, seems to be pretty busy attending to his outside practice, extending as far as Dewetsdorp, a town in the adjoining district. At Wepener I hired a small waggon with hullocks, and on the third day came to Mount Morijah, a well-known French Protestant mission station, and within easy distance of the paramount Chief, Lerethodi, who resides on an adjoining mountain, which looks "so near," but is rather "far." Being assured that it could be "done in ten minutes," I hired a couple of ponies, and, with the loan of saddles from Mr. Heathcote, the obliging manager of Mr. Wells's store, Mrs. Coaker and I started with a guide.

The scenery was grand, and if we ever do the journey again, we shall doubtless enjoy it. At last, after climbing a particularly steep, stony "shoot," at the top of which the mountain was lined with a stone wall which in war time would be very awkward for an invader, we found ourselves in a large native village, with some stone buildings. The Chief Lerethodi was sitting on a camp-stool surrounded by a large crowd, probably composed of courtiers, Ministers, Opposition, Gold Sticks, and office-seekers. We "shook

hands," but I am sorry to state that H.M. seemed a little under the influence of the rosy god. We strolled about whilst the Chief opened his council under the parody of heaven, when shortly two of his men came to inquire our business. Learning that I had brought a hottle of "Q.E.D." renovator for Alice, the chief's principal wife, and a tin of my own horse-condition powders (prepared from a Ledbury recipe), the "Secretary" seemed very pleased, and invited us to Lerethodi's house. Arrived there, we found John Barleycorn in the ascendant and the snores of the great man paramount. The Secretary and his brother, the interpreter, however, showed us every attention. Lerethodi's "palace" resembles a colonial railway-station. The walls are adorned with flaring almanacks, supplied by local firms, a few photos of well-known chiefs, &c. An empty pain-killer hottle was *en evidence*. We were introduced to a hevy of the Chief's wives and future wives, who all seemed very happy and fond of toffee. Lerethodi has only thirty-six wives, the principal one (Alice) being a Christian. Letsea, Lerethodi's father, had 150 wives. Some herbal tobacco of Potter & Clarke's excited great curiosity, and the "Secretary" was delighted with the odour. He was also pleased to receive a sample of Hoffmann's headache-powders, an American patent. The herbal mixture, I may mention, has been highly appreciated by every native to whom I gave any. But to return. The occasional masses of vapour which wafted round the various mountains warned us to be off, and, with the help of another guide, we reached our waggon, after a most exhilarating trip, and with the keenest of appetites. At Mr. Wells's store we found every variety of English, American, and Dutch medicines, including Mellin's food.

In conversation with different traders I was assured that nothing could be made by physicking the natives, as they are "far too slim"; but one trader informed me that he often sold croton oil at 3d. per drop.

To sum up Basutoland, I found it, as I had often heard it described, one of the most lovely countries imaginable—"the Switzerland of Africa"—"a land flowing with milk and honey." We came out of it, after only seven days, the pictures of health, having thoroughly enjoyed it, in spite of floods, thunder, lightning, wind, and storm.

*A propos* of quackery in South Africa, as recently mentioned in your columns, this country is a splendid field for quacks. One Lionel Löwenthal, whose name is not unfamiliar, has recently paid a visit to Jagersfontein, but beyond selling a few pairs of "specs," did not do much harm.

At Koffyfontein lately a well-known quack (from the Eastern Province) was called in to a fine girl of about twelve. He pronounced her to be suffering from sunstroke, the next day brain-fever, the next typhus. The following day she was a corpse, and the day after the quack attended as chief mourner and major-domo, in the absence of the father, who was on the fields. Two other children died under the same hand, and the quack sent in a bill for 40l. Another child was rapidly growing worse, when, doubtless the parents getting the tip, the mother left for Kimberley, taking the infant with her. The latter, of course, rapidly recovered. These are facts, but whether the Free State Government will take any notice of them is another question.

Allow me to express my deep regret at the death of Mr. S. M. Burroughs, which I noticed when opening my *C. & D.* upon returning from my trip. The open-handed hospitality he showed to me whilst in England in 1891 I shall never forget. Quite recently, in reply to a postcard, he sent me several copies of Henry George's "Free-trade" for gratis distribution.

Yours faithfully,

Jagersfontein, Orange Free State,

N. COAKER.

Lady Day.

### Anti-cutting.

SIR,—I agree, in a great measure, with the remarks made by Mr. Jas. E. Denting a week or two ago. As he says, it is a perfect farce advertising goods at a certain price, and at the same time issuing notices and agreements which practically overturn the very prices advertised. The subject is a difficult one to tackle; but for my part, I certainly will not, and do not, lend any help and personal push to articles which allow a mere hagatelle of profit.



I should like to point out how powerful a factor in the matter of sales of various proprietaries is the goodwill and personal recommendation of chemists. A chemist can often, by a mere word or two, make or spoil the sale of a patent. Let the profit on these goods be such as will secure the personal help of the chemist. In the matter of sales this will be a benefit both to the advertiser and the actual distributor alike. Do not imagine the average chemist is going to push or help the sale of goods showing a profit of 7 or 8 per cent.!

Fraserburgh, April 8.

Yours truly,  
J. A. ROBERTSON.

SIR,—Your correspondent Mr. Dewing has struck the right note in his letter published March 30. The exceedingly small profits now obtained on proprietary articles has produced a most unhealthy state of things in this part of our business, as many chemists are continually endeavouring to sell their own articles in preference to those of other firms—the merits of a preparation not being considered at all. If, as your correspondent remarks, retailers derived a reasonable profit from the sale of proprietary articles they would be far more willing to give those of other firms a fair chance, and thus extensive advertising on the part of manufacturers would not be so essential to success as it is now.

There is one other point which to my mind is worth consideration. Does it not, in the eyes of a customer, detract from a preparation to speak of a "reduced price" after the article has been represented as thoroughly reliable? To sell at the advertised price would, I believe, do good all round.

Yours, &c.,

April 10.

CASCARA. (28/41.)

#### Pharmacopœia Revision.

SIR,—I hope the excellent series of articles you are publishing *re* the B.P. will draw forth an instructive correspondence from working pharmacists. Nothing shows more clearly the necessity of adopting a rational system of weights and measures than the hopeless confusion of ideas that exists in regard to the old systems, and out of which there is only one way—the metric system, and that only. It may be that some slight changes will be necessary to get rid of objections which may exist as to points and cyphers. The way in which the B.P. Appendix sets forth the relations of weights and measures is rather disjointed. What is wanted is one compact table placing all measures of the same value on the same horizontal line, and giving the fractions approximately. • Synonyms require curtailing. If it is unnecessary to tell the medical man that zinc sulphate is incompatible with lead acetate, it is equally unnecessary to inform him that bicarbonate of sodium is the same as bicarbonate of soda; that Canada turpentine is Canada balsam; or that spt. æth. nitrosi and spt. æth. nitrici stand for the same. The most necessary synonyms are the chemically descriptive ones. It would be a gain if some of these were made the official names, as you have suggested. Meanwhile, it is a very great boon to have such names as gluside, phenazone, acetanilide, &c., because the patient does not know what they are, whereas the trade names of these he does comprehend.

If the B.P. is to be taken as an analyst's standard, it should scrupulously avoid adopting loose names that will include other articles for which it has no right to lay down a standard. Take a well-known case. Paraffin-wax is very largely used in laundry work. The people want paraffin, but ask for white wax. It is, therefore, absurd to demand that "white wax" shall answer to the tests under *cera alba*. The B.P. names should be specific—*cera apis alb.*, *cera apis flav.*, white beeswax, yellow beeswax, and no synonyms. It is not the province of the B.P. to act as a standard for the general public in buying medicine for dosing themselves or in buying articles for use in the arts. That this is so is proved by the fact that articles may be, and are, deleted when medical practice alone does not require them, this reason being considered sufficient. The picking and selecting done in the B.P. would not be allowed for a moment if the Pharmacopœia were the standard against commercial fraud. This is a police matter, and analysts must evolve their own standards as they do when examining wool for cotton or milk for water.

If it is the duty of anyone to settle it, then it lies with the

legal representatives of the customer—viz., the Board of Trade.

QUAKER. (24/23.)

[We have much curtailed our correspondent's letter. He makes suggestions regarding the metric system, the adoption of which would require a new Act of Parliament.—*Ed. C. & D.*]

#### The Dental Profession.

SIR,—Your article on "The Dental Profession" presents some peculiar facts. It would be interesting to learn how many of the 71 per cent. of dentists registered simply by virtue of "being in practice before the passing of the Act" are chemists and druggists. It would be still further interesting to know why it is that so few of these gentlemen have made any effort to obtain a dental diploma (L.D.S.) either in the United Kingdom or a dental degree (D.D.S.) in the States. Perhaps it is not generally known that those whose names are on the Dental Register are eligible to present themselves for the L.D.S. "sine curriculo" or for a dental degree of the U.S.A. by passing the final examination. Preparation for these examinations does not entail any absence from home previous to sitting for examination. From six to nine months' close study under an efficient tutor is sufficient to ensure success. Total cost of diploma at home, about 40*l.*, including books; American degree, including travelling, about 65*l.* I shall be pleased to afford any further information to any who will communicate their requirements.

I am, dear Sir, yours obediently,

110 Glenparke Road, Forest Gate. ADEPT. (30/68.)

#### LEGAL QUERIES.

*Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMIST'S AND DRUGGIST'S DIARY.*

29/31. *Law*, writing in reference to an answer last week about giving notice to or by chemists' assistants, says he has had many years' experience as employer, and pays weekly, and always gives one week's notice or one week's salary in lieu thereof, without any formal agreement. This goes against our assumption that the custom of the trade is a month's notice.

30/8. *Wills*.—Nux vomica and its preparations are in the second part of the poisons schedule. They were added in 1882.

28/39. *S. H.*—There is no provision in the Pharmacy Act compelling a chemist to show his poison-book on the demand of a police officer, and no Court has ever made an order on the subject, so far as we know. We should think a magistrate's order to show the book could be enforced. Clearly the intention was that the book should be kept for public use.

29/51. *P. D. A.* asks:—"Is it illegal to supply a customer with 3*z.* turpentine in a beer-bottle marked with beer-seller's name?" [In a case similar to the one suggested the County Court Judge at Cardiff found for the defendant. See *C. & D.*, August 12, 1893. You might also refer to a case reported in *C. & D.*, September 1, 1894. All judges might not take that view.]

28/34. *Omega*.—A person who buys a box of Beecham's or Holloway's pills to retail them out in pennyworths must have a medicine-licence.

134/95. *J. J. C.*—We do not think the Board of Inland Revenue would regard the addition of ferri amm. cit. gr. i. and P. cardam. gr. ij. to each ounce of meat and malt wine sufficient to make it strictly medicinal. But why not ask the Board?



30/72. *Chelt.*—In the absence of any provision to the contrary the death of a partner dissolves the partnership. We cannot, however, judge without much fuller information whether the estate of A is liable to any debts contracted by B between the time when B left and A's death. You had better consult a solicitor, to whom all the circumstances can be explained.

31/52. *J. C.*—You could not enforce your claim for solicitor's charge.

31/44. *J. E. D.*—Much depends on the terms of the contract note, and on what was said when you ordered the soaps. But unless there was in these something inconsistent with your understanding of the agreement, you are, we should think, entitled to have the soap packed in the boxes as it was shown to you by the traveller. If you are confident on these points, tell them that you shall not pay for the soaps till you get the boxes, and that you hold the soap at their disposition.

### MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

21/6. *Ginger.*—Children's Hair-lotions.—Recipes 1 and 2 in 1894 DIARY, page 366.

21/34. *P. B.*—Blood-purifier and Spring Tonic:—

Ferri ammon. cit.	..	..	..	..	5ij.
Tr. nucis vom.	..	..	..	..	5ij.
Spt. chloroformi	..	..	..	..	3ss.
Aq. ad	..	..	..	..	3viij.

M.

A tablespoonful thrice daily at meal-times.

This is a cheap mixture, and a safe one. Along with it may be given—

Magnes. sulph.	..	..	..	..	3iss.
Potass. bitart.	..	..	..	..	3ss.

M.

A teaspoonful in a teacupful of hot water before supper, or the first thing in the morning.

21/37. *Topes.*—(1) Threadworms in an Adult.—Infusion of quassia 10 oz., to be injected into the lower bowel twice a week an hour before bedtime. The night before give a 5-gr. santonin powder. Continue this treatment until worms are no longer observed in the discharge; then, as an intestinal tonic, give the following mixture:—

Magnes. carb. pond.	..	..	..	..	3ss.
Tr. rhei	..	..	..	..	5vj.
„ gentianæ co.	..	..	..	..	3ss.
„ zingib.	..	..	..	..	5ij.
Aq. ad	..	..	..	..	3viij.

An eighth part forenoon and afternoon.

(2) Hair-restorer.—See last volume, page 264, and reply to "Avis," in last issue.

199/23. *Canada.*—The "Farmers' Veterinary Adviser," published at 7s. 6d., is a reliable book. You can get it through any bookseller. "The Practical Horsekeeper," by Dr. George Fleming (Gill, 3s. 6d.), is an excellent book also.

20/41. *Climax.*—Composition Powder and Essence.—*C. & D.*, November 26, 1892, page 788.

20/34. *R. G.*—Ten-volume hydrogen-peroxide solution is used as Golden Hair-dye.

21/47. *Summer.*—(1) Grape-salt.—The usual effervescing saline is what you need for the label which you send us. A good formula is—

Sodii bicarb.	..	..	..	..	3xvj.
Acid. tartaric.	..	..	..	..	3xiv.
Magnes. sulph. exsic.	..	..	..	..	5ij.
Potass. chlorat.	..	..	..	..	5ij.
Sacch. alb.	..	..	..	..	3xvj.

M.

(2) Quinine-and-iron Tonic—See our issues of March 2, page 314, and November 3, 1894, page 662. (3) Ginger-wine.—1894 DIARY, page 364.

20/53. *Inquirer.*—Ext. cannabis indicæ is a good remedy for the Chronic Cough of Horses, and is recommended by Tuson in doses of ʒij. to ʒiv. We should only put ʒj. of the extract into a cough-ball.

20/50. *E. B.*—(1) You will find all that you want in regard to diseases and their symptoms in our 1894 DIARY. (2) Legg's "Guide to the Examination of the Urine" (Lewis, 3s. 6d.).

18/68. *Dolor.*—The use of mercury for killing trees by pouring it into a hole bored into the heart is an old idea, and is probably founded on fact, but we have no experience of the matter. Perhaps some subscriber may be able to tell you whether it is reliable or not.

21/28. *Yorkshireman.*—Your sample of Ice-crea Colouring is one of the artificial orange dyes. Some whole sale house will match it for you.

16/45. *Tobo.*—You will find several recipes for Tobacco Perfumes in *C. & D.*, August 20, 1892, page 275, but it is illegal for a retailer to add anything of that nature to tobacco, except cigarette tobacco.

16/4. *Veritas.*—Please give us more information about the sample. With what we have at present an analysis of the sample would be of little use to subscribers generally.

16/9. *R. J. W.*—We do not know of anything which can be given to a drunkard without his knowing it, which will cure him of his bad habits. We can assure you such a thing is not at present known to exist. The willingness of the drunkard to reform is essential, and treatment should be moral chiefly rather than medicinal.

16/34. *Admirers.*—(1) Wood-stain Varnish.—Bismarck brown q.s. dissolved in spirit varnish made with sandarac, shellac, and resin. (2) Non-Scheduled Rat-poison.—Phosphorous paste. See *C. & D.*, August 20, 1892, page 275.

16/43. *Cavan.*—(1) The ordinary treatment to prevent wood rotting is to saturate it with creosote oil. (2) Cyclists' Diet, when they are training, may be the same as the University boat-crews take. See an article by Mr. Lehmann in a recent number of *The Album*. If any chemico-cyclist has experience in this matter, we shall be glad to hear from him.

20/32. *Mizpah.*—You will find the information you want in the books mentioned in reply 146/9, our issue of February 9.

25/10. *Saline.*—See reply to "Summer."



22/34. *G. T. S.*—(1) Tocher's Test for Sesame Oil.—Prepare a solution of pyrogallol—30 gr. to the oz. of pure hydrochloric acid. Put  $\frac{1}{2}$  oz. of this into a test-tube fitted with a cork. Add  $\frac{1}{2}$  oz. of the oil, shake vigorously, set aside for a minute, allow separation to take place, then pipette off the supernatant fluid. Next boil the acid liquid for five minutes: a purple colour is developed, the intensity of which varies according to the proportion of sesame oil present. (2) Conroy's (or Bechi's) Test for the Detection of Cotton-seed Oil in other oils depends upon the reduction of a solution of silver nitrate (1 gramme and 5 drops nitric acid in 200 c.c. of alcohol) when equal parts of the solution and the oil are mixed in a test-tube and heated on a water-bath. The mixture becomes brown if cotton-seed oil is present. (3) Mohr's Volumetric Method for Estimating Antimony is to use standard iodine solution in the same way, practically, as in estimating arsenic. Each cubic centimetre of decinormal iodine equals 0.0166 gramme of  $(\text{KSbOC}_2\text{H}_3\text{O}_6)_2\text{H}_2\text{O}$ .

25/19. *E. D. J.*—Hydroquinone Developer containing free alkaline carbonate must become brown on exposure to the light air. That is natural to it. If you wish to avoid the colouring, omit the potassium carbonate and add it when you are to develop a plate.

25/39. *D. H. B.*—Quite true. Knowledge of the constitution of cod-liver oil has much improved since we answered your question, and we now consider the use of liquor calcis in emulsions an advantage.

25/11. *Hawen.*—Yes, carbolic acid and chalk together in a tooth-powder is a sure way of combining the acid ere long. Use Kieselguhr or China clay.

23/62. *Ginger.*—Digestive and Liver Syrup.—See *C. & D.*, February 10, 1894, page 234, and December 9, 1892, page 846.

84/95. *E. S. V.*—(1) We thank you for your scheme regarding an index to the "Corner for Students" notes, and shall keep it in view. (2) Möller's conclusions in regard to the Chemistry of Cod-liver Oil seem to be indisputable. We infer from them that the reason why an old oil emulsifies more readily than a new one is that the former contains much more free acid, and, therefore, that interaction of it and the iron in the wine is readier. The specimens which you send support this view, and lead to the suggestion that old cod-liver oil is easier emulsified than new oil. Of course, by his new method, Möller prevents the formation of free acid in his oil during the manufacturing-process; but he does not pretend that on exposure to the air the acids are not formed—indeed, he offers to give new oil for old, so that customers may have it without free acid.

283/95. *T. W. L.*—The Lavender-water is very fine, but we have not got at the secret of it. Try formula 9 of the DIARY (page 400) with 2 oz. of jasmine extract, and essence of civet 3ij. in place of as much spirit.

261/16. *Triticum Sativum.*—Brown Bread is laxative because the indigestible husk irritates the intestines.

22/44. *W. B. C.*—Bay Rum.—See *C. & D.*, September 22, 1894, page 470.

261/9. *Chemicus.*—See letter in this issue.

29/52. *L. P. S. I.*—You will get the information you want in the last Educational number, September 16, 1894.

22/38. *J. W. Sutherland* (Ontario).—"Diseases of Dogs," by Hugh Dalziel (1s., Gill, 170 Strand, London, W.C.).

## INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

**Feeding Goldfish.**—Small red earthworms seem quite as acceptable to them as ants' eggs, and are generally much more readily obtained. I have not found that they will take flies readily; being a species of carp, their habits are similar. They will eat breadcrumbs, especially those of brown bread; but bread is so apt, if not eaten at once, to turn sour in the water, and produce rapid and great mortality in an aquarium, that it is a very unsafe mode of feeding.

E. S. V. (26/11)

**Pennyroyal-and-steel Pills**—I have found the following formula, given, I believe, in *C. & D.*, September 29, 1888, work and roll well:—

Fer. sulph.	..	..	..	..	5i.
Pot. carb.	..	..	..	..	m40.
P. myrrh.	..	..	..	..	5ij.
Ol. puleg.	..	..	..	..	℞xxx.

Rub together the oil, myrrh, and pot. carb.; add fer. sulph. in fine powder; mass with honey (5j.). Divide into 4-oz. pieces and cut into twenty-four pills.

Dose: Two, twice daily.

E. S. V. (26/11.)

## Next Week.

Tuesday, April 23.

*Royal Institution of Great Britain.* At 3 P.M. Professor George Forbes on "Alternating and Interrupted Electric Currents" (1.).

Wednesday, April 24.

*Society of Arts, John Street, Adelphi, W.C.* At 8 P.M. "The Use of Electricity for Cooking and Heating," by Mr. R. E. Crompton.

Thursday, April 25.

*Chemical Society, Burlington House, W.* At 8 P.M. Papers to be read:—"The Action of Nitrosyl Chloride on Amides," by Professor Tilden, F.R.S., and Dr. M. O. Forster. "The Action of Nitrosyl Chloride on Asparagine and Aspartic Acid: Lævo rotatory Chlorosuccinic Acid," by Professor Tilden, F.R.S., and H. J. Marshall. "On a Property of the Non-luminous Atmospheric Coal-gas Flame," by L. T. Wright. "A Constituent of Persian Berries," by A. G. Perkin and J. Geldard. "Potassium Nitrosulphate," by E. Divers, F.R.S., and T. Haga. "Diortho-substituted Benzoic Acids," by J. J. Sudborough, Ph.D. "Hydrolysis of Aromatic Nitriles and Acidamides," by J. J. Sudborough, Ph.D. "Action of Sodium Ethylate on Deoxybenzoin," by J. J. Sudborough, Ph.D.

*Royal Institution of Great Britain.* At 3 P.M. Professor Dewar on "The Liquefaction of Gases" (1.).

*Chemists' Assistants' Association, London,* 103 Great Russell Street, W.C. At 8.30 P.M. "Essential Oils in their relation to (1) The British Pharmacopœia; (2) Trade," by J. C. Umney.

*Society of Arts, John Street, Adelphi, W.C.* At 4.30 P.M. "The Coming Railways of India, and their Prospects," by Mr. J. W. Parry.

*Liverpool Chemists' Association, Royal Institution.* At 7 P.M. Notes on "Adulterated Acetic Acid," and "The Alkaloidal Value of Jaborandi Leaves and Leaf stalks," by Mr. M. Conroy, F.C.S. "Notes from the Dispensing-counter on some B.P. Preparations," by Mr. H. O. Dutton.

Friday, April 26.

*Royal Institution of Great Britain.* At 9 P.M. Dr. John Hopkinson on "The Effects of Electric Currents in Iron on its Magnetisation."

*Sheffield Microscopical Society.* At 8 P.M. Lecture by Mr. J. H. Worrall.

*Pharmaceutical Society, 36 York Place, Edinburgh.* At 8.30 P.M. "Ferrous Phosphate," by George Coull, B.Sc. "Smaller-sized Pharmacopœial Pills," by William Lyon. "Note on Commercial Linseeds," by A. J. Dey and W. B. Cowie.



# 20 HIGHEST AWARDS.

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[Paris Exhibition, 1889.]

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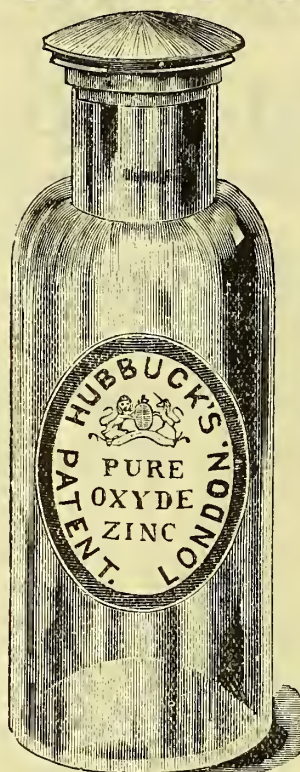
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Walker, Troke & Co.  
Warren, A. & J.  
Willows, Francis &  
Butler.  
Woolley, Jas., Sons & Co.  
(Lim.)  
Wright, Layman &  
Umney.  
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Orleans.  
Carter, Carter & Killam,  
Boston.  
Langley & Michaels, San  
Francisco.  
Lazell, Dalley & Co., New  
York.  
Lehn & Fink, New  
York.

McKesson & Robbins,  
New York.  
Muth Brothers & Co.,  
Baltimore.  
Roller & Shoemaker,  
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Schieffelin, W. H., & Co.,  
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Is made by Sublimation, and is Warranted  
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Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' and Photographic Sundries.

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10 and 15% CARBOLIC  
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In 1d., 2d., and 3d. tins.  
Also in 1, 2, 3, and 7 lb.  
Tins and Casks, for large  
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**MANUFACTURERS OF ALL MEDICINAL PREPARATIONS  
FROM CRUDE DRUGS,**

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MISCIBLE EXTRACT of COCA.

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MALT and COD LIVER OIL.

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Sweet as Cream. Does not Separate. Easily Digested. Contains 50 % of Finest Oil. Cannot be Surpassed.

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HAVE MANY IMITATIONS BUT NO EQUALS.

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DRIED MOSS in sheets. Antiputrescent, and absorbent of discharges.

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BISMUTH, MERCURIALS, & SCALE PREPARATIONS.

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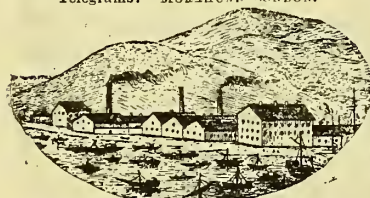
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**COD LIVER OIL.**

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**ROYAL INFANTS' PRESERVATIVE**

Established by 100 years' experience as a safe and effective Medicine.

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## Shepperson's Meat-Juice

(PATENTED).

(CONCENTRATED).



### A CHEAP MEAT-JUICE.

"This is a very excellent preparation of meat-juice. It contains the albumins and albuminoids in their raw condition, and in a greater abundance than many other preparations of the same character, and, moreover, it is sold at a most reasonable price. Nothing has done more to limit the consumption of a form of food invaluable to invalids than the exorbitant price at which most of these preparations are sold. The taste of this preparation is much more palatable than most others of its class, and we have no doubt that the Liquor Carnis Co., who are the manufacturers, will receive the support of the medical profession in their efforts to establish an invalid food of the highest nutritious value and of pleasant taste at a moderate price." — *Medical Annual*, 1895.

### A FORCIBLE LETTER.

Leeds, April 4th, 1895.

Your "Shepperson's Meat-juice" which I have recently had the opportunity of comparing with other invalid-nutrients, undoubtedly scores a double victory in the domain of dietetics, over the prejudices of "the public" (as regards raw meat-juice), and over the rest of competing preparations in the market. It is far beyond most of these in-nutritious elements, and perceptibly superior in food-value (as estimated by its coagulability with acids) to even the best of them.

So thorough is my conviction of the unexaggerated truth of this (unsolicited) statement, that I shall in my practice rely on it solely, and recommend it before all others.

You have, *me judice*, solved the hitherto insuperable difficulty of how to make a meat-juice at once rich in life-sustaining properties and appetisingly savoury to the palate, and you well deserve the rewards that must follow on public acquaintance with your efforts towards an ideal sick-room regimen.

Yours, &c.,  
FREDERICK LEES, M.R.C.S. Eng.,  
L.R.C.P., Lond.

# Schacht's Preparations.

## SCHACHT'S LIQUOR BISMUTHI.

Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In  $\frac{1}{2}$  lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

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Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz.,  $\frac{1}{2}$  lb., and 1 lb. bottles.

## SCHACHT'S SYR. CINCHONÆ ALCOHOLICUS.

A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, *Bark minus the woody fibre*, and its efficiency has been proved by careful medical inquiry. Dose: Ten to sixty drops.

## SCHACHT'S PEPSINA LIQUIDA (REGISTERED TITLE).

Fluid Pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is guaranteed to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the fetid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 2s. 6d. each; and larger sizes, for dispensing, at a cheaper rate.

## SCHACHT'S PEPSINA LIQUIDA C. BISMUTHO.

Each drachm contains in a concentrated form, besides the fluid Pepsina a full dose of Schacht's Liquor Bismuthi. Dose: One drachm. In  $\frac{1}{2}$  lb. and 1 lb. bottles.

N.B.—*Peps. Liq. c. Bismutho Co. contains, in addition, one grain soluble Euonymin in each drachm.*

## SCHACHT'S PEPSINA LIQUIDA C. EUONYMIN.

Each drachm contains one grain of soluble Euonymin. Dose: One drachm. For dispensing,  $\frac{1}{2}$  lb. and 1 lb. bottles.

## SCHACHT'S LIQ. PODOPHYLLI C. BISMUTHO.

A perfect solution of Podophyllin, containing  $\frac{1}{2}$  grain in each drachm

## SCHACHT'S LIQUOR CASCARÆ DULCIS.

A pleasant and active form of Cascara Sagra-da. Dose: One to three teaspoonfuls diluted. In 4 oz.,  $\frac{1}{2}$  lb., and 1 lb. bottles.

## SCHACHT'S INFALLIBLE RENNET.

An entirely new Essence, perfectly reliable, for the coagulation of Milk and the production of Junkets and Curds and Whey. It is a preparation of the most wholesome nature, that contains no salt, and has no special taste, smell, or colour. In large bottles at 1s. of any Chemist's. This Essence keeps well in any climate.

The above Preparations can be procured from Messrs. Barclay & Sons, W. Edwards & Son, and the Wholesale Druggists; or direct by post from

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Telegraphic Address—"IPECAC LONDON."

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Wholesale & Export Druggists & Manufacturing Chemists,  
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 SOLID AND LIQUID EXTRACTS, B.P. & U.S.P., and all Pharmaceutical Preparations.

OL. LAVAND. "Special."  
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PERFUMES. "Special."

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**TASTELESS CASTOR OIL.**

**ENGLISH & FOREIGN ESSENTIAL OILS.  
 EXTRACT OF MALT AND EXTRACT  
 OF MALT AND COD-LIVER OIL.**

In 8-oz. and 16-oz. Amber Bottles with Artistic Labels.

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Are some of our chief Specialities. The quality of drugs in Capsules, especially SANTAL WOOD OIL is often so inferior that we have made a special study of these goods. None but the Finest Drugs are used in our factory, and we give a guarantee with every order despatched of the Purity of the goods.

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Is the Drug on which we have made our name. We can only supply the Finest English Oil, however, as we have never bought an ounce of foreign oil since the foundation of our firm. We will

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For "Private Brands" of milled and superfatted Soaps, toilet as well as medicinal. We put up for the trade as a specialty all kinds of Dentifrices, Saponaceous Powder, Paste in Collapsible Tubes, &c., &c.

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COMPRESSERS IN THE WORLD.



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## DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name "**DR. BOW'S LINIMENT**" (also a trade mark) appears in the Government Stamp.

**BARCLAY & SONS, LIMITED, LONDON**  
**RAIMES, CLARK & CO., EDINBURGH & YORK**

} For the Proprietor,  
December 1st, 1891.

Largest Manufacturers of

# MALT EXTRACT.

HOME.

*Bulked or Bottled, Prices on Application.*

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**ANDERSON & CO.,** WHOLESALE MANUFACTURING CHEMISTS, 12 MURANO PLACE, EDINBURGH

**HEWLETT'S**

**LIQ. SANTAL FLAV. c. BUCHU ET CUBEBA**

(THE ORIGINAL PREPARATION).

Price 10/6 per lb. Dose—1 to 2 drachms diluted.

Packed for Dispensing only, in 10-oz., 22-oz., 40-oz., and 90-oz. bottles.

**CAUTION.**—The uniform success which has attended the administration of this remedy during the last twenty years has caused a host of worthless imitations to be offered to the Medical Profession. These imitations, whilst closely copying the title, utterly fail to approach the original preparation in quality, and only give cause to disappointment and failure.

To ensure obtaining this preparation, please write "**LIQ. SANTAL FLAV. c. BUCHU et CUBEBA (Hewlett's).**"

INTRODUCED AND PREPARED ONLY BY

(2)

**C. J. HEWLETT & SON,** Wholesale Druggists, 40, 41 & 42 Charlotte St., LONDON, E.C.



# TASTELESS PILLS.—COX'S PATENT.



DATED AND SEALED APRIL 13th, 1854.



AND AS A FURTHER PROTECTION

The Registrar of Trade Marks (after giving the usual public notice prescribed by Parliament to allow of opposition) has granted us the appended **TRADE MARK**, and no pills will be sent out without this mark on all bottles or packages.

## OUR NEW CATALOGUES SENT POST FREE ON APPLICATION.

These contain 800 Coated and Uncoated forms of different strengths, requiring not less than 3,000 Bottles and Jars, and our stock includes the majority of the approved new remedies (suitable for pilular form) up to present date.

To prevent inferior goods being substituted, Medical Men and Chemists are requested, when ordering through Wholesale Houses, to specify—

## COX'S TASTELESS PILLS,

Or order direct from us, we paying postage and carriage.

Our Mr. COX invented and introduced pearl-coating to render pills tasteless more than forty years ago, and our trade, which is constantly increasing amongst the highest class of Medical Men and Chemists, is doubtless *four or five times* as large as the rest of our copyists' put together.

ANY FORMULA DISPENSED AND COATED.

QUOTATIONS AND SAMPLES FREE.

**ARTHUR H. COX & CO.,** ORIGINAL MAKERS OF  
TASTELESS PILLS,  
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Telegraphic Address—"COX BRIGHTON."



# Schieffelin's

(NEW YORK, U.S.A. ESTABLISHED 1794)

# PERFECT PILLS.

THESE PILLS AND GRANULES ARE IN TASTELESS TRANSPARENT COATING.

Special Attention is called to the following:—

**ALOIN, STRYCHNIE ET BELLA-  
DONNE** 1st form—

{ Aloin, 15 gr.  
{ Strychnie, 1-120 gr.  
{ Ext. Belladonnæ, ½ gr.

**ALOIN, STRYCHNIE ET BELLA-  
DONNE**, 2nd form—

{ Aloin, 15 gr.  
{ Strychnie, 1-60 gr.  
{ Ext. Belladonnæ, ½ gr.

**ALOIN, STRYCHNIE ET BELLA-  
DONNE** COMP.—

{ Aloin, 15 gr.  
{ Strychnie, 1-60 gr.  
{ Ext. Belladonnæ, ½ gr.  
{ Ext. Cascare Sagradæ, ½ gr.

**ALOIN, STRYCHNIE BELLADONNE  
ET IPECAC.** (Lapactice)—

{ Aloin, ½ gr.  
{ Strychnie, 1-60 gr.  
{ Ext. Belladonnæ, ½ gr.  
{ Ipecac. Pulv., 1-16 gr.

**CASCARE SAGRADÆ EXT.**, 2 grs.

**CASCARE SAGRADÆ EXT.**, 3 grs.

**ERGOTIN**, 1 gr.

**ERGOTIN**, 2 grs.

**ERGOTIN**, 3 grs.

**ERGOTIN COMP.**—

{ Ergotin, 3 grs.  
{ Ext. Cannab. Ind., ½ gr.  
{ Strychnie, 1-60 gr.

**HYDRARGYRI IODIDI RUB.**, 1-25 gr.,  
1-16 gr., ½ gr., 1-5 gr., ½ gr.

**PHENACETINE ET QUINIE**—

{ Phenacetine-Bayer, 3 grs.  
{ Quinie Sulphatis, 2 grs.

**PHENACETINE ET SALOPHEN**—

{ Phenacetine-Bayer, 2½ grs.  
{ Salophen, 2½ grs.

**QUINIE, FERRI ET ZINCI VAL.**

{ Quinie Valerianat., 1 gr.  
{ Ferri Valerianat., 1 gr.  
{ Zinci Valerianat., 1 gr.

**STRYCHNIE**, 1-100 gr., 1-60 gr., 1-50 gr.,  
1-40 gr., 1-32 gr., 1-30 gr., 1-20 gr.

**STRYCHNIE SULPH.**, 1-200 gr., 1-100 gr.,  
1-60 gr., 1-50 gr., 1-40 gr., 1-32 gr., 1-30 gr.,  
1-20 gr.

THEIR THERAPEUTIC ACTION IS NOT IMPAIRED BY AGE OR CLIMATE.

SOLE AGENTS—

**POTTER & SACKER,** 7 Fowkes Buildings, LONDON, E.C.  
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# NEVER EXCELLED!!

## WAND'S SOLUBLE PEARL-COATED PILLS.

OFFICIAL FORMULÆ	Price per Gross			EXAMPLES OF PRICES	Price per Gross			THE "LITTLE" PILL SERIES	Price per Gross		
	Under 5	5	10		Under 5	5	10		Under 5	5	10
	Gross	Gross	Gross		Gross	Gross	Gross		Gross	Gross	Gross
3 Pil. Aloes et Ferri ..	s. d.	s. d.	s. d.	109. Bland Pills .. 533. Aperient (Mild) .. 130. Antibilious ..	s. d.	s. d.	s. d.	68. "Little" Aperient .. 400. "Little" Antibilious .. 412. "Little" Cough .. 410. "Little" Liver ..	s. d.	s. d.	s. d.
13 " Hydrarg. ..	0 7 1/2	0 6 1/2	0 5 1/2		0 6 1/2	0 5 1/2	0 4 1/2		0 8	0 7	0 6
17 " Rhei Co. ..	0 7	0 6 1/2	0 5 1/2		0 8	0 7	0 6				
8 " Colocynth Co. ..	0 11	0 10	0 9		0 9	0 8	0 7				
9 " Colocynth et Hyos ..	1 1	1 0	0 11		0 8	0 7	0 6				

TERMS.—Net for Cash with Order, Carriage Paid in Great Britain and Ireland.

**WAND, Pearl-Coated Pill Factory, LEICESTER.**

## SUGAR - COATED PILLS

AT WHOLESALE PRICES.

Prepared with Drugs of the Finest Quality.

Net Price List, cash with order, in 10-gross tins.

SAMPLES ON APPLICATION.

Per Gross.		Per Gross.	
Pil. Aloes c. Ferri.. .. 6d.		Pil. Colo. c. Hydr. .. 9d.	
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" Bland's .. .. 3d.		" Opil (gr. j.) .. .. 1s.	
" Colo. Co. .. .. 8d.		" Podophyllin (gr. i) 7d.	
" " c. Hyos. .. 9d.		" Rhei Co. .. .. 4d.	

DISCOUNT ON ORDERS OF 100 GROSS.

Well Advertised Ready Sales.

**NORTON'S**

**NORTON'S CAMOMILE PILLS**

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NEW CITY ROAD, GLASGOW.

**SUGAR COATED PILLS**

MEDICINE MADE PLEASANT FOR ALL

ANDERSTON APOTHECARIES HALL  
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## SUGAR-COATED PILLS, COMPOSED OF THE PUREST DRUGS.

SOLUBLE, RELIABLE IN ACTION, PERMANENT. Special Net Price List. Cash with Order.

Packed in Gross Screw-capped Bottles	Per grs.	10 grs. lots	50 grs.	100 grs.	Packed in Gross Screw-capped Bottles	Per grs.	10 grs. lots	50 grs.	100 grs.	Packed in Gross Screw-capped Bottles	Per grs.	10 grs. lots	50 grs.	100 grs.
1d. per gross extra.					1d. per gross extra.					1d. per gross extra.				
Antibilious .....	1/-	11d.	10d.	9d.	Hamilton .....	1/1	1/-	11d.	10d.	Podophyllin .....	1/-	1d.	10d.	9d.
Assafetida .....	8d.	7d.	6d.	6d.	Indigestion .....	1/-	11d.	10d.	9d.	Quinine .....	1/2	1/-	11d.	10d.
Bland .....	6d.	5d.	4d.	4d.	Laxative .....	10d.	9d.	8d.	7d.	Rhubarb .....	9d.	8d.	7d.	6d.
Castor Oil .....	9d.	8d.	7d.	6d.	Little Liver .....	5d.	4d.	4d.	3d.	Squill .....	8d.	7d.	6d.	5d.
Colocynth .....	1/-	11d.	10d.	9d.	Liver .....	1/-	11d.	10d.	9d.	Steel and Aloes ..	8d.	7d.	6d.	5d.
Dandelion .....	1/-	11d.	10d.	9d.	Mercurial .....	8d.	7d.	6d.	5d.	Tonic .....	1/-	11d.	10d.	9d.
Female, Al. et Ir. ..	8d.	7d.	6d.	5d.	Neuralgia .....	1/-	11d.	10d.	9d.	Vegetable, &c. ....	9d.	8d.	7d.	6d.
Gregory .....	1/-	11d.	10d.	9d.	Opium .....	1/-	11d.	10d.	9d.					

The Pills are also put up in glass tubes containing 4, and the Little Liver 8 in each tube, and sell at One Penny per tube. They are packed on cards of 3 dozen, and in gross boxes with glass lid at 7/- per gross tubes assorted; also in screw-capped bottles to sell at 6d., 3/6 per dozen, 3/6/- per gross bottles; 6 gross assorted 1d. tubes in handsome mahogany case, 42/-.

Private recipes compounded, rolled, and coated, in 8 to 10 days, made all sizes from 1/4 to 4 grains. The formula for any Pill will be given when required. Wholesale Agent—Mr. P. A. WOOLGAR, 31 Snow Hill, London, E.C.

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They cure Constipation, Biliousness, Indigestion, Fulness after Meals, Sick Headache, Heartburn, Flushings of Heat, Cold Chills, Depressed Spirits, Sleepless Nights, Liver Complaints, Palpitation of the Heart, Pains in the Back, all Nervous Disorders, &c. &c. For Females of all ages they will be found the best medicine on earth, never failing to cure all complaints and symptoms incident to the sex. With full directions. Price 9d., 1/13, and 2/9 from all Chemists, or direct from the Proprietor, **THOMAS JACKS, 8 St. George's Circus, LONDON, S.E.** Small Pill, Pearl-coated, Tasteless. All Chemists, Druggists, and Stores should stock these pills, which are being well advertised, and, as they are really good, are now in great demand.

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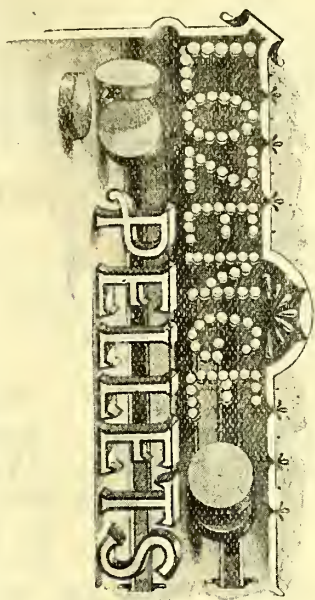
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Each Lozenge-Pellet is made of a definite weight, and contains an exact amount of drug. Every pound by weight of Pellets equals 466 lozenges. They bear no name or number, and can be dispensed in any ordinary box, as they are not hygroscopic unless kept in a distinctly damp room.

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L.P. Acid Benzoic, B.P. strength .....	1/8
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L.P. — Tannic, B.P. strength .....	1/4
L.P. Annion, Mur., 5 grs. ....	1/4
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L.P. Catechu, B.P. strength .....	1/4
L.P. Calomel, 1 grain .....	1/4
L.P. " 2 grains .....	1/8
L.P. " 3 " .....	2/
L.P. Capsicum .....	1/
L.P. Colicis, $\frac{1}{8}$ grain .....	4/
L.P. " $\frac{1}{16}$ " .....	2/8
L.P. Ferrum Reduct., B.P. strength .....	1/6
L.P. Ipecacuanha, B.P. strength ..	1/4
L.P. Krameria .....	1/4
L.P. Morphia, B.P. strength .....	1/6
L.P. Morphia and Ipecacuanha, B.P. strength .....	1/6
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L.P. Potassium Chloride, B.P. strength .....	1/4
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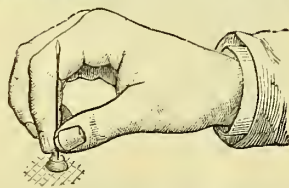
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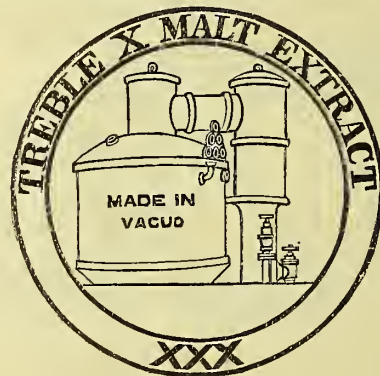
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Obtained by the action of Metallic Zinc on Chloroform and Alcohol.  
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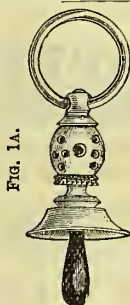


Fig. 1A.



Fig. 2A.



Fig. 3A.

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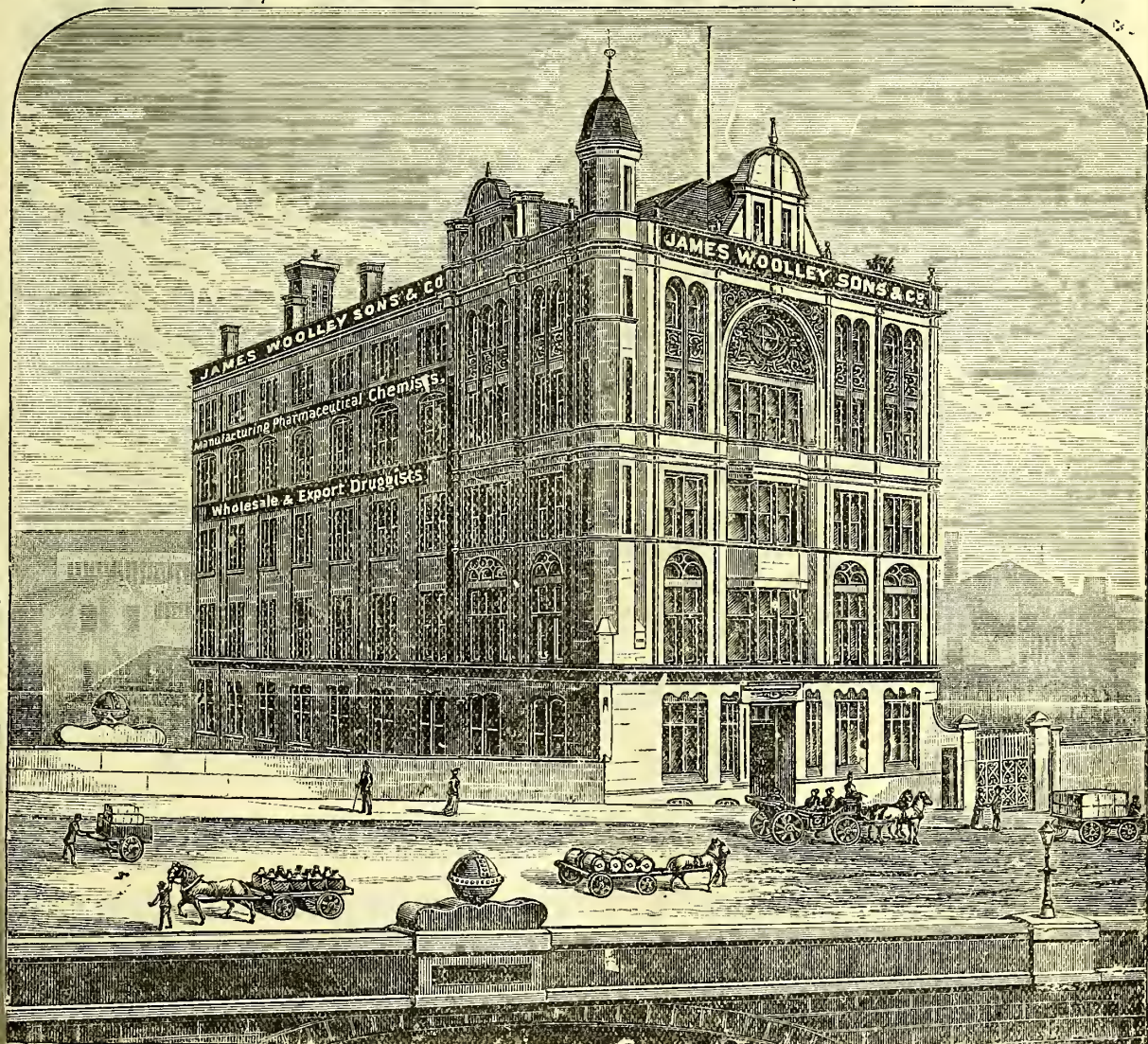
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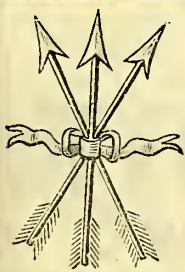


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PURE AND CHEAP.

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Mono Carbonate of Soda	---	---	---	---	1.90
Sulphate of Soda	---	---	---	---	trace
Chloride of Sodium	---	---	---	---	.035
Moisture	---	---	---	---	.82
Insoluble	---	---	---	---	nil

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Most economical form of Soda for the use of Printers,  
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These salts have distinctive physical forms of perfect chemical composition. The difficulty of the preparation of these compounds, which are the subject of Mr. A. Robin's paper on the treatment of neurasthenia, has prompted Messrs. Schering to devote special attention to their manufacture in absolute purity.

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is a soluble Phenacetine prepared by the interaction of Phenetidine and glycocoll amidoacetic acid.

Satisfactory results are recorded from its employment as an anti-febrile in phthisis and other pulmonary affections, in ileotyphus, &c. (Herzog, von Mering, Hertel, Jacobi, Cohnheim), as an anti-rheumatic, especially in acute forms (Hertel, Cohnheim), and as an anti-neuralgia (Herzog, Aronson, Cohnheim), as a specific in malarial fever (V. Dall'Olio, Albertoni, Prati, Novi, Venturini, Cucco, G. Colosanti, G. Geronzi).

Given in 8-grain doses when the febrile temperature fluctuates between 9° and 40·5°, a reduction of about 2° is obtained, accompanied by more or less profuse perspiration; in acute rheumatism the same dose was given three to seven times a day; a very rapid effect was produced upon the pain and swelling.

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This is the concentrated preparation of the three cresols, ortho, para, and meta, the active ingredients of coal tar oils. These three cresols are present here in their full strength of 100 per cent. as a water-white clear liquid of pleasant creosote-like odour, and free from the faint smell of carbolic acid. Trikresol is soluble in cold water to the extent of 2·2 to 2·55 per cent., and, as Fraenkel and Gruber have shown, the 1 per cent. is equal to 3 per cent. of carbolic acid, hence Trikresol has a disinfectant value three times that of carbolic acid, and one-third the toxicity.

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is the saturated watery solution of 40 % formic aldehyde  $\text{CH}_2\text{O}$ . It may be said of it, speaking in the sense of the medical practitioners, that the more we use of it the more we like it. Formalin has already found a great number of friends in the principal London hospitals and post mortem rooms. Its great antiseptic value in all forms of zymotic disease, its anti-fermentative and deodorant services of all bedroom malodours and excrementitious matter, coupled with its harmlessness to the human organism and all articles of textile goods and furniture (wood or metal), and also its inexpensiveness, clearly indicate its general and liberal use by the medical profession as a germicide and preventative of zymotic disease. It should be ordered in 1 % solutions, for which full directions apply.

For Literature, vide "The Therapist," published by Aug. Siegle, 30 Lime Street, E.C.

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Single Bottles, 4 oz., 8 oz., and 16 oz. (fluid), of our Specialties can be obtained through any Wholesale House at the following prices.

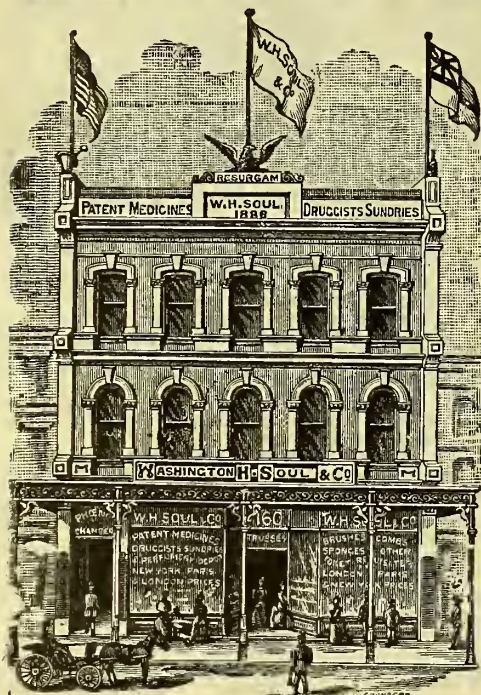
	Strength.	Per lb
Liquor Calcii Hypophosph. ... ..	1 to 7	3/6
" " Lactophosph. ... ..	1 to 7	5/-
" Ferri et Calcii Lactophosph. ... ..	1 to 7	5/-
" Ferri Lactophosph. ... ..	1 to 7	5/-
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" Scillæ ... ..	1 to 7	3/-
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" Quiniæ et Strychniæ Phosph. (reduced)	1 to 7	10/-
" Pepticus ... ..	1 to 19	5/-
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" Santal c. Buchu et Cubebâ ... ..	—	4/-
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ALSO

Syrup Ferri et Quiniæ Hydrobrom. (reduced)	—	3/-
" " " " c. Strychnia (reduced)	—	3/-



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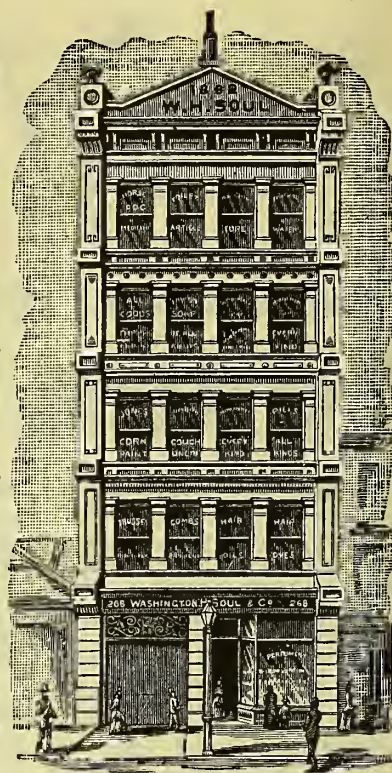
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*W. H. S. & Co. can arrange  
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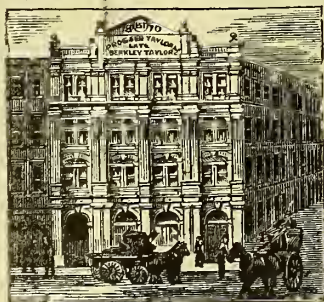
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Owing to misapprehensions as to the amount of morphine used in the preparation of

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we wish to state that the amount is one-eighth ( $1/8$ ) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ( $1/64$ ) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

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88 Farringdon Road, London.



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**VANILLA BEANS** a Speciality.  
BOURBON BEANS, Straight, also Dressed after the Mexican style.  
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**TERRÖL, THE COD LIVER OIL SUBSTITUTE**

Is not a Patent Medicine but a first-class

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Trial is the best test, and we are submitting Trial Samples to all the chief Physicians in the Kingdom. WE ARE NOT AFRAID OF THE VERDICT.

TERRÖL bears a very good profit, but nevertheless we are determined the Retail Price shall not be cut. We shall refuse to supply to anyone who sells below the proper Retail Price, 1/6 and 4/6 per bottle.

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ANTIPYRETIC

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**LACTOPHENIN.**

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The most remarkable of new Antipyretics, possessing great advantages over Antipyrin and Phenacetin.

It is a pleasant and reliable Antipyretic, with the additional advantage of a pronounced soothing hypnotic effect occurring simultaneously with the Antipyresis. It agrees well with patients. It has given excellent results, even with little children. It has been found to be very free from injurious or disagreeable after-effects.

Professor Schmieberg, in Strassburg, who made the pharmacological investigation of LACTOPHENIN, states:—  
"LACTOPHENIN, like the Antipyretics of the Antipyrin and Phenacetin group, quickly causes a reduction of the temperature of the body, especially where it has been artificially raised. At the same time, LACTOPHENIN produces in a far higher degree than Phenacetin, for example, a state of hypnosis and a great diminution of sensitiveness to painful impressions, while the respiration and circulation remain unaltered."

Samples and further particulars sent free to members of the Medical Profession on application to

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To Chemists and Druggists,  
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It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,

76 New Bond St.,

London, W.

18th June, 1894.

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THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence*. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. No other preparation should be substituted when

Nepenthe is ordered in a prescription. We prepare also Double Strength Nepenthe, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

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MANUFACTURED OR SELECTED BY

DODGE & OLCOTT,

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OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL,  
SASSAFRAS, SPEARMINT, TANSY, WINTERGREEN,  
WORMWOOD AND MANY OTHERS.

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# BOTTLE AND GLASS

See also "CHEMISTS' AND DRUGGISTS'

## CAMPBOR SALT, ROUNDS, dark actinic green, wide mouth.

Ground-glass globe stoppers	1	1 1/2	2 oz.
	21/	23/6	27/ per gross.

## CAMPBOR SALT, SQUARES, dark actinic green, wide mouth.

Ground-glass globe stoppers	1	1 1/2	2 oz.
	21/	23/6	27/ per gross.

## CANNON ESSENCE BOTTLES, ROUND, extra heavy, for Perfumery, white flint glass.

Plain	1/2 oz.	6 dr.	1 1/2	2	3	4 oz.
Fitted white metal sprinklers	13/	14/	15/6	17/	18/	19/6
Stopped globe head stoppers	14/6	15/6	16/	17/	18/	21/
						22/

## CANNON ESSENCE SQUARES, ORDINARY SERIES, white flint glass—Good bold attractive shape—(LUNDBORG'S SQUARES).

Plain	1/2 oz.	6 dr.	1 1/2	2	3	4 oz.
Fitted white metal sprinklers	13/	14/	15/6	17/	18/	19/6
Ground-glass stoppered	14/6	15/6	16/	17/	18/	21/
						22/

## CANNON ESSENCE SQUARES, EXTRA TALL SERIES, white flint glass—VERY ATTRACTIVE BOTTLE—(TALL LUNDBORG'S SQUARES).

Plain	1/2 oz.	6 dr.	1 1/2	2	3	4 oz.
Fitted white metal sprinklers	13/	14/	15/6	17/	18/	19/6
Ground-glass stoppered	14/6	15/6	16/	17/	18/	21/
						22/

## CASTOR OILS, long neck, ROUND—

Pale green or pale blue tint	1 1/2	2	3	4	5	6	8	10	12	16	20 & 22 oz.
Dark blue glass or actinic green	5/	5/6	6/6	7/6	8/	9/	10/6	11/6	12/6	14/	16/

## COUGH MIXTURE FLATS, panelled (essence of fennel bottles).

Pale blue tint	1 1/2	2	3	4	5	6	8	10	12	16	20 & 22 oz.
Dark blue glass or actinic green	5/	5/6	6/6	7/6	8/	9/	10/6	11/6	12/6	14/	16/

## DISPENSING BOTTLES, FLAT, plain, or greenish.

Pale blue tint	1 1/2	2	3	4	5	6	8	10	12	16	20 & 22 oz.
White flint glass	5/	5/6	6/6	7/6	8/	9/	10/6	11/6	12/6	14/	16/

Round-edge shapes stocked in 2, 3, 4, 6, 8, 10, 12, 16 and 20 oz. sizes. In amber glass we make any size to order, in not less than 5 gross of a size at same prices as white flint glass.

## FEEDING BOTTLES—INTERNATIONAL

The following are special lines at low prices for those of our customers who require VERY CHEAP feeding bottles. We do not supply these in less than one gross lots. Each in Paper Bag.

No. 33. Green bottle, box-topped cork, white rubbers	25/	No. 37. Green bottle	29/
No. 34. White " " " black " "	26/6	No. 38. White " " " " "	31/
No. 35. Green " " " " "	27/6	No. 39. Green " " " " "	33/
No. 36. White " " " " "	28/	No. 40. White " " " " "	34/6

## INTERNATIONAL SERIES IN FOLDING CARD BOXES, ATTRACTIVELY LABELLED

Screw glass stoppers, black seamless teats, and 7/8-inch best quality black rubber tubes.

No. 61. White glass bottle, white glazed earthenware unions	...	without brushes	40/	...	with 2 brushes	44/	per gross.
No. 62. Green " " " " "	...	without brushes	38/	...	with 2 brushes	42/	"
No. 63. White " " " " "	...	without brushes	41/	...	with 2 brushes	45/	"
No. 64. Green " " " " "	...	without brushes	39/	...	with 2 brushes	43/	"

## "LA SPECIALITE" SERIES IN FOLDING CARD BOXES, ATTRACTIVELY LABELLED.

Screw glass stoppers, black seamless teats, and 7/8-inch best quality black rubber tubes. Both bottles and boxes without manufacturers' names, &c.

No. 65. White glass bottle, white glazed earthenware unions	...	without brushes	39/	...	with 2 brushes	43/	per gross.
No. 66. Green " " " " "	...	without brushes	37/	...	with 2 brushes	41/	"
No. 67. White " " " " "	...	without brushes	40/	...	with 2 brushes	44/	"
No. 68. Green " " " " "	...	without brushes	38/	...	with 2 brushes	42/	"

## FEEDING BOTTLES STRAIGHT NECK, WHITE GLAZED CAPS.

(Each in Paper Bag.)

No. 81. Green glass bottles, with white rubbers	20/	No. 83. Green glass bottles, with black rubbers	22/	per gross.
No. 82. White " " " " "	22/	No. 84. White " " " " "	24/	"

## "LA SPECIALITE" FEEDING BOTTLES, BENT NECK.

(Each in Paper Bag.)

No. 85. Green glass bottle, wood-top cork, with white rubbers	21/	No. 89. Green glass bottle, wood-top cork, with black rubbers	23/	per gross.
No. 86. White " " " " "	23/	No. 90. White " " " " "	25/	"
No. 87. Green " " " " "	24/	No. 91. Green " " " " "	26/	"
No. 88. White " " " " "	26/	No. 92. White " " " " "	28/	"

## SEND FOR OUR NEW

## FLATS, white flint, short neck—

For corks	1 1/2	2	3	4	6	8	10	12	16	20 oz.
Ground-glass stoppered	14/	14/6	15/	16/	16/6	17/	20/	21/	27/	29/

## FLATS, short neck, with cork ring and glass stopper.

Pale green glass	1 1/2	2	3	4	6	8	10	12	16	20 oz.
White flint glass	7/6	8/	9/	10/	11/	12/	12/	18/	20/	23/

## FLATS, long neck—Fig. 49.

Pale green glass	1 1/2	2	3	4	6	8	10	12	16	20 oz.
White flint	7/6	8/	9/	10/	11/	12/	12/	18/	20/	23/

## FURNITURE POLISH BOTTLES, pale green glass.

With mouths for corks	1 1/2	2	3	4	6	8	10	12	16	20 oz.
Fitted glass stoppers and cork rings	6/	7/	7/	10/	11/	12/	12/	18/	20/	23/
Fitted boxwood-topped corks	10/	11/	12/	12/	18/	20/	23/	25/	26/	28/

## FURNITURE POLISH BOTTLES, panelled, pale green glass—WIDE MOUTH.

With mouths for corks	1 1/2	2	3	4	6	8	10	12	16	20 oz.
Fitted glass stoppers and cork rings	6/	7/	7/	10/	11/	12/	12/	18/	20/	23/
Fitted boxwood-topped corks	10/	11/	12/	12/	18/	20/	23/	25/	26/	28/

## GLYCERINE BOTTLES, white flint glass—

Rounds with round shoulder	1 1/2	2	3	4	6	8	10	12	16	20 oz.
Ovals, made extra heavy	7/6	8/	9/	10/	11/	12/	12/	18/	20/	23/

Glycerine panel flats or squares, white glass, 4 sides panelled, and lettered "Distilled Glycerine." Fluid capacity 1 1/2, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz. per gross.



# BREFFIT'S

(AIRE & CALDER BOTTLE CO.)

EVERY CLASS AND DESCRIPTION



## WARE BUYERS.



DIARY," 1895, Pages 453 to 465.

## JERSEY COLOGNES white flint glass, square—

	Size	1	2	4 oz.
Plain		7	6	11 1/2 per gross.
Ground-glass stoppered		18	18	21 1/2
Fitted white metal sprinklers		19 6	18	21

## KALIS, OR WIDE-MOUTH FRENCH VIALS, white flint glass—

	Size	1	2	3	4	6	8	10	12	16 oz.				
With mouths for corks	...	3/3	3/3	3/4	4/	4 6	5/3	6/	7/	8 6	11/	12 6	15/	per gross.
Fitted boxwood-topped corks	...	8/	8/3	8/3	9/	9 6	11/	11/6	12/	15/	18 6	19/	26/	"
Ground-glass stoppered	...	14/	14/	14/	15/	15 6	16/	16/	22/	23/	25/	30/	35/	"
							Size	20	24	30	32	36	40 oz.	
With mouths for corks	...	...	...	...	...	...	...	21/	24/	27/	34/	34/	per gross.	
Fitted boxwood-topped cork	...	...	...	...	...	...	...	27/	31/	34/	34/	41/	42/	"
Ground-glass stoppered	...	...	...	...	...	...	...	41/	44/	43/	43/	56/	53/	"

LIS, OR WIDE-MOUTH FRENCH VIALS, with bright screw metal caps—													
	Size	1	2	3	4	6	8	10	12	16	20 oz.		
Fitted white metal caps	...	9'	10'	11'	12'	13'	15'	16'	20'	22'	27'	30'	per gross.
Fitted brilliantly-coloured lacquered caps, assorted colours	...	10/6	11/6	12/6	13/6	15'	17'	13'	22'	24'	30'	33'	"

## KALIS, OR WIDE-MOUTH FRENCH VIALS, with bright screw metal caps—

White flint glass	...	...	...	...	...	8/	6/	5/8	4/	1/5	12/	14/	per gross.
White tint glass	...	...	...	...	...	6/	6/8	7/8	8/	10/	13/	16/	"
<b>VENDERS, paneled, flat, globe neck—Size</b>													
White flint glass	...	...	...	...	...	1 dram.	2 dram.	1 1/2	1	1 1/4	2	3	4 oz.
						3/6	4/6	5/3	6/	7/	7/3	10/	10/8 per gross.

## LAVENDERS long neck, flat, for corks—

	Size	1	2	3	4	6	8	10	12	16	20 oz.		
Pale blue glass	...	3/	2/	3/	3/	3/	4/	5/	6/	8/	12/	18/	per gross.
White flint glass	...	3/	3/	3/	3/	3/	4/	5/	6/	8/	12/	18/	..
Actinic green glass	...	3/	3/	3/	3/	3/	4/	5/	6/	8/	12/	18/	..

## LAVENDERS, panelled, flat, globe neck—

Size	1 dr.	2 dr.	$\frac{1}{2}$ oz.	6 dr.	1	$\frac{1\frac{1}{2}}$	2	3	4	5	6	8	10	12	16	20 oz.	
	$\frac{2}{1}$	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2\frac{1}{2}}$	$\frac{2}{2\frac{1}{2}}$	$\frac{2}{2\frac{1}{2}}$	$\frac{3}{3}$	$\frac{3}{3}$	$\frac{3}{3}$	$\frac{3}{3\frac{1}{2}}$	$\frac{3}{3\frac{1}{2}}$	$\frac{4}{4}$	$\frac{4}{4}$	$\frac{5}{5}$	$\frac{5}{5}$	per gross.
Extra charge for washing and fitting with ordinary corks, 1 to 8 oz. = $\frac{1}{16}$ per gross. 10 to 40 oz. = $\frac{2}{16}$ per gross.																	

## LIMES, OR ROUND-SHOULDERED FRENCH VIALS, narrow mouth for corks—

With mouths for corks, Fig. 71	...	...	...	...	5/6	6/	8/6	7/	8/	9/	10/	per gross.
Ground-glass stoppered „ 71a	...	...	...	...	15/	15/	18/	16/6	17/6	21/	24/	„
Fitted white metal sprinklers	...	...	...	...	13/	14/	15/	16/6	17/6	19/	21/	„

## IN AMBER GLASS WE MAKE TO ORDER IN NOT LESS THAN 5 Gross of a size, at same prices as quoted for White Flint Glass.

	7/8	8/6	11/	11/5	13/	16	per gross.
<b>ALT EXTRACT BOTTLES</b>	in amber or vegetable-green glass—						
	Fluid capacity						
	5	6 1/2	8	10	12	16	20 oz.
Oval shape flattened wide mouth	10/	11/6	12/6	15/3	17/6	19/	21/- per gross.

Extra charge for washing and fitting with ordinary corks, 1 to 8 oz.=1/6 per gross. 10 to 40 oz.=2/6 per gross.

## LUBINS, OR OLDHAM SQUARES thick for perfumery, white flint glass—

	3/3	3/8	4/3	5/	5/6	6	6/6	8	8	9/	10/6	12/	13/	15/	per doz
<b>Measures graduated in accordance with Board of Trade standards, as required by the <i>Weights and Measures Act</i>, 1878, and bearing the Govern-</b>															
<b>ment Inspector's mark of verification—</b>															
<i>Size</i> —1	1	1	2	2	4	6	8	10	12	18	22	24	23	40 oz.	

## MAGNESIAS, white flint glass, black capped—

MEXICAN FLATS—Fig. 87.										Size	1	1½	2	3	4	6	8 oz.	
White flint glass	...	...	...	...	...	...	...	...	...	...	6	7	7 6	9	10 7	12	14	per gross.
Blue opal glass	...	...	...	...	...	...	...	...	...	...	8 6	9	10 6	12	14 6	16	18 6	"
White opal glass	...	...	...	...	...	...	...	...	...	...	8 6	9	10 6	12	14 6	16	18 6	"

## MALT EXTRACT BOTTLES in amber or vegetable-green glass—

	Size	1	2	3	4	6	8	10	12	16	20 oz.
Fluid capacity		5	6 1/2	8	10	12	16	20	24	32	40 oz.

## MEASURES, glass, punted bottoms, and accurately graduated, cylindrical, or conical—Figs. 79, 79B.

With mouths for corks	...	...	...	...	4/6	5/	5/	5/6	6/6	7/	8/	9/	9/	9/	15/	15/	19/	22/	per gross.	
With glass stoppers and cork rings	...	...	...	...	—	—	7/6	8	9/	9/6	10/6	11/6	11/6	11/6	18/6	19/6	23/	27/	"	
Ground-glass stoppered					14/6	15/	15/	15/6	16/	17/	18/	21/	21/	22/	23/	30/	30/	34/	40/	"

## MEASURES graduated in accordance with Board of Trade standards, as required by the Weights and Measures Act, 1878, and bearing the Government Inspector's mark of verification—

NEL FLATS, pale blue or green glass—As Fig. 106.																
Size.	1	1 1/2	2	3	4	6	8	10	12	16	20 oz.					

## MEXICAN FLATS—Fig. 87.

Ground-glass stoppered	...	...	...	...	13 6	14	14 6 15	15 6 17 6 19	22	24	30	31	37	45	...
<b>SONS, SEKAGON SHAPE, fluted, lettered "NOT TO BE TAKEN," dark blue or Actinic green glass—</b>															
	Size	2 dr.	1 oz.	6 ir.	1	1 1/2	2	3	4	6	8	10	12	16	20 oz.
With months for corks		3/9	4/4	4 8.	5	6/	6 6	7/	8/	9/	11/	14 6	16/	18	22
															per gross.

## OIL BOTTLES, with funnel stoppers and caps, hand made, white flint glass, punted—

MADES, wide-mouth, moulded, white flint rounds--													
	Size	$\frac{1}{2}$	1	1 $\frac{1}{2}$	2	3	4	6	8	10	12	16	20 oz.
With mouths for corks	...	4 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	8 $\frac{1}{2}$	9 $\frac{1}{2}$	10 $\frac{1}{2}$	12 $\frac{1}{2}$	15 $\frac{1}{2}$	18 $\frac{1}{2}$	21 $\frac{1}{2}$	27 $\frac{1}{2}$ per gross.

Gold labelling, 3/ per dozen extra. Engraved labels, 4/6 per dozen extra.

## OVALS, white flint glass—

	Size	1	2	3	4	6	8	10	12	16 oz.	
Plain for corks, narrow or wide mouth	6 1/2	6 3/4	8 1/2	8 7/8	10 1/4	1 1/2	1 3/8	1 7/8	2 1/8	2 3/8	2 1/2 per dozen.
Narrow mouth, ground-glass stoppered, Fig 131	1 1/2	1 3/4	1 7/8	1 9/16	2 1/8	2 1/5	3 1/2	3 6	3 8	4 1/2	4 1/2

## ILLUSTRATED PRICE LIST.


## PANEL FLATS, pale blue or green glass—As Fig. 106.

Wide mouth, ground-glass stoppered	...	...	...	...	5.3	5.6	6/	5.3	6.3	8.3	10.6	..
<b>LABELLING ... 3/- per dozen.</b>	<b>ENGRAVED LABELS ... 4/6 per dozen.</b>											
LS, DISPENSING, plain, white flint glass, tall, medium, or squat—												

## POISONS, SEKAGON SHAPE, fluted, lettered "NOT TO BE TAKEN," dark blue or Actinic green glass—

Ground-glass stoppered	...	...	...	...	12/	12/6	13/	13/	13	14/	15/	15/	17/	21/	26/	„
OFFICES AND SHOWROOMS																

## POMADES, wide-mouth, moulded, white flint rounds—

BOTTLES AND GLASSWARE.													131
<hr/>													

## ROUNDS, hand-made (SHOP ROUNDS), white flint glass—

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered, Fig. 131		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered, Fig. 131a		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

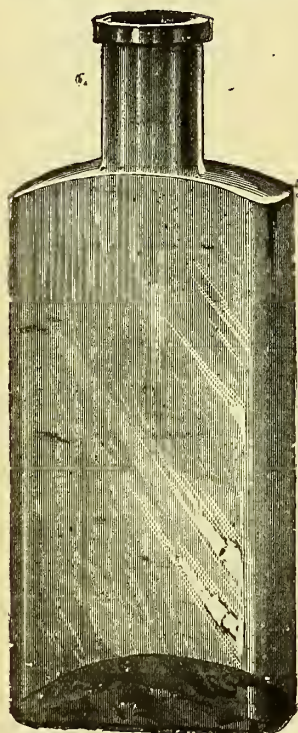
	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

	Size	1	2	3	4	6	8	10	12	16	20 oz.	
Plain for corks, narrow or wide mouth		6 1/2	8 1/2	8 1/2	10 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Narrow mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.
Wide mouth, ground-glass stoppered		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	per dozen.

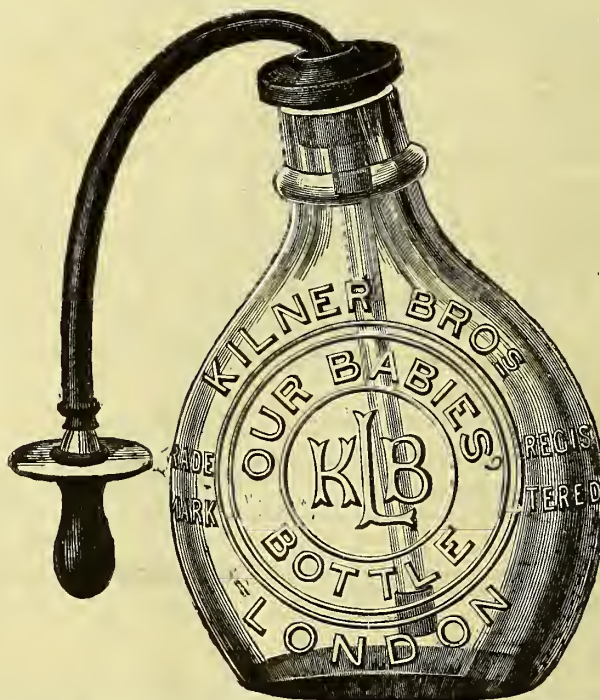
	Size	1	2	3	4	6	8	10	12	16	20 oz.
Plain for corks, narrow or wide mouth		6 1/2	8 1/2								



# GLASS BOTTLES



DISPENSING.



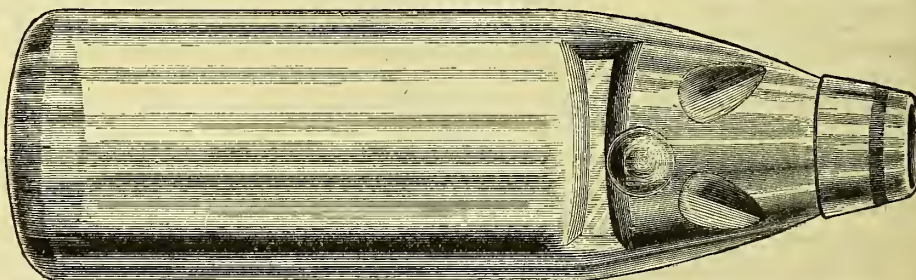
FEEDING.

## MINERAL WATER BOTTLES

Of all kinds and sizes for STOPPERS and CORKS.

CODDS' BOTTLE

TWO-WAY.



Also VAN BOXES and CASES for same.

Full particulars of above and many other kinds, sent on application to

## KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.





834A.



1177B.



1134.



C0276.



1203.



1187.



00266.



1159.



987.



930.



00311.



5068.



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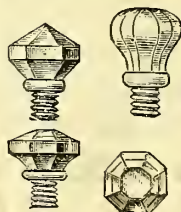
0136.



21.



0162.



1813.



5098.



0020A.



347.



0077.

133

Our



1219.

New

AND GREATLY ENLARGED

# Illustrated Price List

**NOW READY.**

The keener the Competition the greater the necessity of employing  
stylish and attractive Packages!

We recommend *all* who desire a neat and pretty Bottle at a reasonable  
cost for their specialities to peruse our New Price List before  
placing their next order.

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Offices & Showroom—  
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London, E.C.

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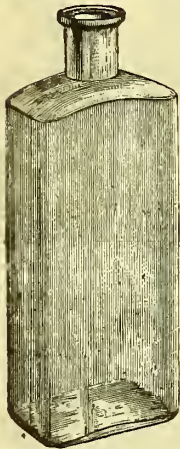
Telephone 1365.



# ORIGINAL AND SUPERIOR ROUND-CORNERED DISPENSING BOTTLES GILBERTSON'S

(No. 118583)

ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.

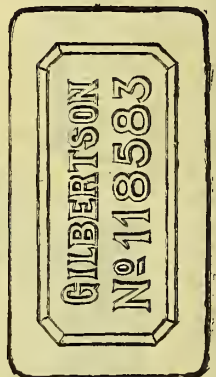
**SPECIAL NOTICE.**

We particularly ask those friends for whom we have cut NAME PLATES to stipulate when ordering lettered bottles that Gilbertson, No. 118583, is on the bottom of each bottle, as we understand Travellers (other than our own) are offering to utilise our Plates, which is manifestly unfair to us, we having introduced and put on the market at great expense Dispensing Bottles with Rounded Corners now universally in use.

Usual Discount. Crates Free. Carriage Paid.

11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

Telegraphic Address:—"FRANGIPANI LONDON."



BOTTOM OF BOTTLE.

**DISPENSING BOTTLES.**

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS &amp; CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. .. 7/6 per gross.	10 & 12 oz. .. 12/- per gross.
6 " 8 " .. 8/6 "	16 " .. 16/- "

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

1/2 oz. .. 3/6 per gross.	1 1/2 oz. .. 4/6 per gross.
1 " .. 3/9 "	2 " .. 5/- "

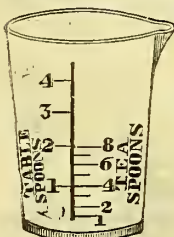
**PLEASE NOTE.**

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,  
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years.

Bankers—London and Westminster Bank.

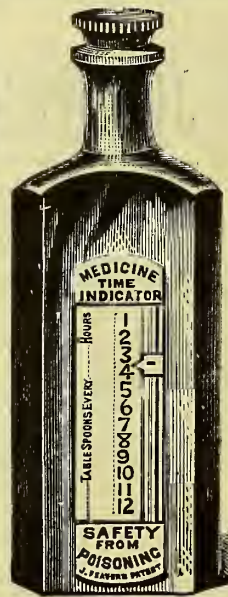
**GRADUATED  
GLASS MEASURES**BOAT-SHAPE FEEDERS,  
BOTTLES, FUNNELS,  
SYRINGES,THERMOMETERS,  
DRUGGISTS'  
GLASSWARE,  
ANDCHEMICAL APPARATUS  
OF EVERY DESCRIPTION.Shipping and Wholesale Trade  
only.**F. H. TAYLOR & CO.**

Glasshouse Yard, LONDON, E.C.

**A GOOD LINE FOR THE TRADE.****MEDICINE TIME INDICATOR**

And POISON PREVENTIVE.

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations not intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.



cate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.

Special Terms to the Trade. Apply to the Patentee

**J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.**





**H. POTHS & CO., 3 Creechurch Lane, Leadenhall Street, E.C.**

SHOP BOTTLES AND JARS WITH VITRIFIED (BURNT IN) LABELS.

METAL SCREW-CAP BOTTLES, GLASS MEASURES, STOPPERED BOTTLES, &c.  
*Buyers are requested to pay a visit to our New Showrooms.*

# HEARN'S BOTTLES

**ARE THE BEST IN THE MARKET.**

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

**HEARN, WRIGHT & CO.** (Late E. A. Hearn & Co.) Wholesale & Export Glass Bottle Manufacturers, London, E.  
 Eclipse Glass Works, Chatsworth Road, Clapton.

## R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

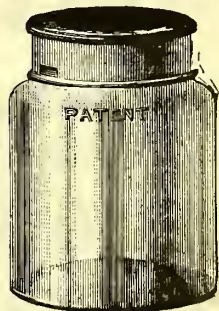
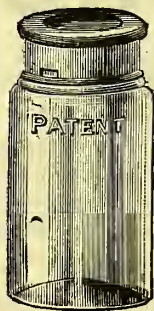
**NOTICE REDUCTION IN PRICES.**

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

**R. H. BARRETT,**

FLINT GLASS BOTTLE WORKS,  
 THE OVAL, CAMBRIDGE HEATH, LONDON, E.  
 Telegraphic Address—"FOREFRONT LONDON."



**OUR  
 FEEDING BOTTLE  
 IS  
 UNDOUBTEDLY  
 THE FAVOURITE.**

*A Trial will Prove this.*



A sample dozen of these Feeders, White Glass, in strong partitioned wood box, will be sent on receipt of

**3/2.**

*Delivered Free in London.*

**E. YOULDON** (Established 1840), 36, 38, & 40 Great Garden Street, LONDON, E.



# A. LAMBERT & CO.

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## SURGICAL INSTRUMENTS & APPLIANCES,

IN

Silver, Electroplate, Cut Sheet Rubber, &amp;c., &amp;c.

ALSO KNOWN  
AS  
SOLUBLE QUININE  
PESSARIES.



ABSOLUTELY  
RELIABLE.

TRADE PRICES  
MODERATE.

SALE UPWARDS OF  
4,000,000.

**BONA-FIDE MAKERS, NOT DEALERS.**

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### LAMBERT'S SOLUBLE QUININE TABLETS.

A Soluble Quinine Pessarie of proved absolute reliability.  
Upwards of 4,000,000 have been sold without a complaint of failure.

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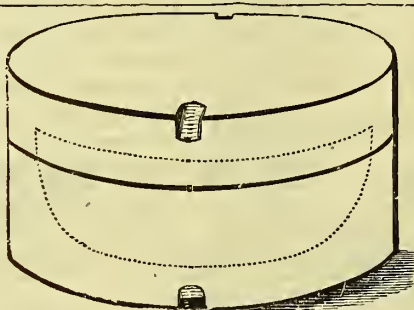
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# WILLIAM TOOGOOD.

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These Pots are beautifully  
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1 dr.	2 dr.	1/2	1/4	1/3	1/2	2/3	2/5	3/5	4/5	8 ounces.
1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.

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1/7	1/9	1/2	1/4	2/5	3/5	4/5	6/5	8 ounces.
			2/2	2/5	3/-	4/-	5/-	6/- per doz.

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TOOGOOD'S MEASURES  
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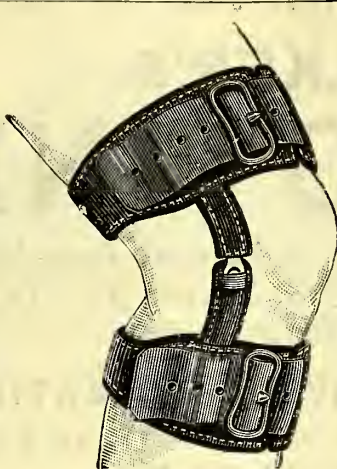


# SURGICAL ELASTIC STOCKINGS AND APPLIANCES.

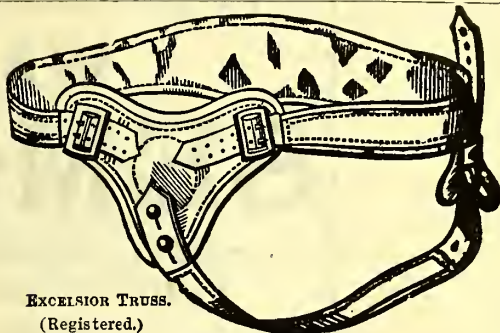
Departmental Lists of Bandages, Belts, Braces, Magnetic Appliances, Surgical Elastic Stockings, &c., Suspensory Bandages, Trusses, Chamois Leather Articles, Hosiery, &c., Surgical Indiarubber, Druggists' Sundries, and will be forwarded on application, free by post.



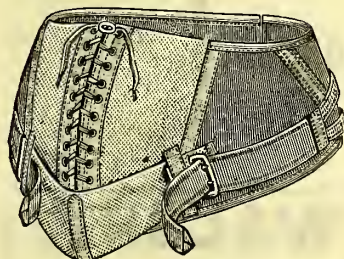
PATENT.—NEW STYLE.  
Pressing back the Shoulders, but  
not Chafing under Arms.



Knee Support.



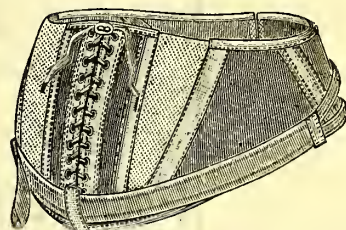
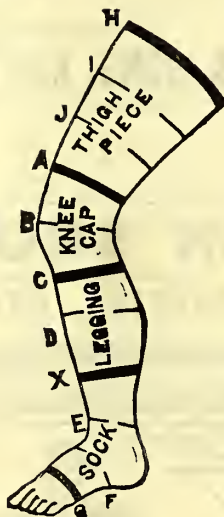
EXCELSIOR TRUSS.  
(Registered.)



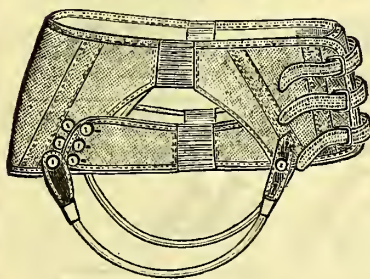
Ladies' (No. 438) Belt.



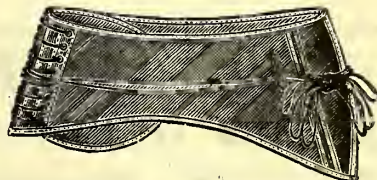
Adjustable  
Stocking.



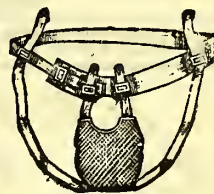
Ladies' (No. 439) Belt.



No. 429.

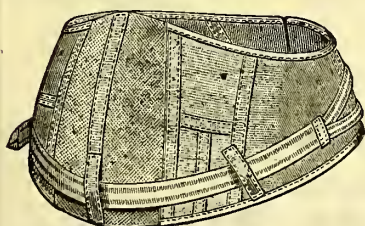


No. 436.

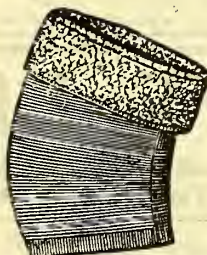


Hammock Suspender.

## Elastic Surgical Appliances.

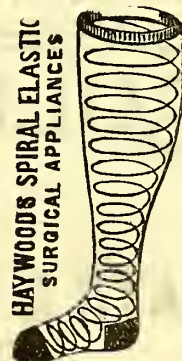


No. 437.



Patent Pile. Protected.

The Pile lying over the India-rubber Cords, protecting them and forming a smooth, soft surface to the limb.



(Seamless). Patent.



"An Embrocation that acts like Magic."

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*For Rheumatism, Sciatica, Lumbago,  
Pains in the Back and Joints,  
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To be had of all Surgical  
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PRIZE MEDAL, Sanitary Congress, 1878; CERTIFICATE OF HONOUR, ditto, 1879; YORK EXHIBITION, 1879, PRIZE MEDAL; Camborne Exhibition, 1878, CERTIFICATE OF HONOUR; International Medical and Sanitary Congress, 1881, HIGHEST AWARD; Brighton Sanitary Congress, 1881, SILVER MEDAL; GOLD MEDAL, Health Exhibition, 1884.



## POCOCK BROTHERS,

Patentees and Sole Manufacturers, 235 SOUTHWARK BRIDGE ROAD, LONDON.

Consists of a series of separate and distinct Cylinders, any diameter and suitable length, made of Waterproof material either for Water or Air, fitting into a case which keeps them side by side, but slightly apart.

Its advantages over ordinary Water or Air Beds are as follows:—

1. In cost it is less expensive.
2. It is quickly filled and easily adjusted.
3. It is warm and light, and well adapted for a camp or field-bed, being waterproof.
4. It admits of ventilation in the space between the tubes.
5. It can be regulated so as to relieve pressure from any part required.
6. By the addition of tubes it will raise one part of the body higher than the rest.
7. By the temporary removal of one or two tubes it affords room for the introduction of a bed-pan.

8. It can be inclined to any angle (even when filled with water) to suit the condition of the patient.

9. It is free from noise and surging, so disagreeable to the invalid on changing his position in a water-bed.

10. In case of injury to a tube it can be withdrawn, and a fresh one substituted at a trifling cost, and without loss of time; whereas the ordinary water-bed if injured in any part (from being in one compartment) is rendered useless.

11. In the treatment of invalids, especially the insane who are paralysed, and have no control over their evacuations, they cannot lie in a pool of wet, the fluid passing away between the tubes.

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Manufacturers of all kinds of

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Special Novelties of the Vienna Medical School, as used by  
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### NEW PATENT BANDAGE ROLLS

SPECIALLY ADAPTED FOR HOSPITAL USE



These Rolls, which, on account of their greater convenience and cheapness, are rapidly replacing the ordinary calico bandages, are made in bleached and unbleached cottons and gauzes, from 33 inches to 36 inches wide, from which bandages of any width can be easily cut as required, the edges remaining quite firm and smooth.

Each Roll is packed separately in a box, and has attached to it a gauge divided into inches to cut by.

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### PILL BOX SHOOT.

"THE CHEMIST AND DRUGGIST" of Feb. 23, 1895, says:—

"The intention is that the shoot shall be hung on a wall. It only projects 2 inches, and is 37 inches long and 7 inches wide. When fully stocked it contains twenty-two dozens of various sizes of pill-boxes, each in a different receptacle, the size required being at any moment available. The apparatus will be found useful in any pharmacy where it may be fixed. The contrivance is well-made and has a neat appearance."

PRICE 10/6 EACH.

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STATUETTES, PLASTER LEGS, ELECTROS, &amp;c., SUPPLIED ON LOAN FREE OF CHARGE.

SAMPLE ORDER REQUESTED—MARK ALL INDENTS VINCENT WOOD.

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## IS THE NATIONAL HOUSE FOR SURGICAL APPLIANCES.

"Acme" Cuirass Brace.



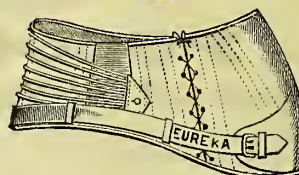
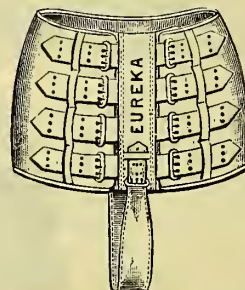
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**BONA-FIDE MAKERS—NOT DEALERS.***All Wholesale Houses supply my Goods.***NOTE PRICES:—**

Trusses, all springs guaranteed	...	from 11/6 per doz.
Suspensory Bandages	...	1/9 "
Surgical Elastic Stockings	...	3/6 per pair.
Gentlemen's Riding Belts	...	12/- per doz.
Ladies' Abdominal Belts	...	24/- "
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Chest Expanding Braces	...	24/- "
Bath Gloves	...	from 1/9 per dozen pairs.
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**CHEST AND LUNG PROTECTORS.****INDIA RUBBER & ROLLER BANDAGES.****COTTON WOOL & SURGICAL APPLIANCES  
GENERALLY.**

Obstetric Binder.



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SURGEONS' TOWS.

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WORKS:

MARK ST. MILLS, LIVERPOOL.

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Trade Mark

For the  
Radical Cure  
of Varicose  
Veins, Ulcers,  
and other  
Diseases of  
the Leg.



CAUTION.—Please  
order Genuine  
Martin's Bandages,  
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ture. All others  
are Spurious  
Imitations.

Complete Price List  
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No.	PRICES.	Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm	8	2 1/2	3/8
3.	Thick "	8	2 1/2	4/-
1B.	Thin, for leg below knee.	10 1/2	3	5/8
1A.	Thick "	10 1/2	3	7/8
8.	Thin, for leg and knee	14	3	7/8
7.	Thick "	14	3	9/8
9B.	Thin, for leg and thigh	21	3	10/8
9A.	Thick "	21	3	12/8

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS,**  
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NERVE PAINS

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 had on application to the above address.



# FERRIS & CO.'S Patent "EVER-READY" CADDY

AND

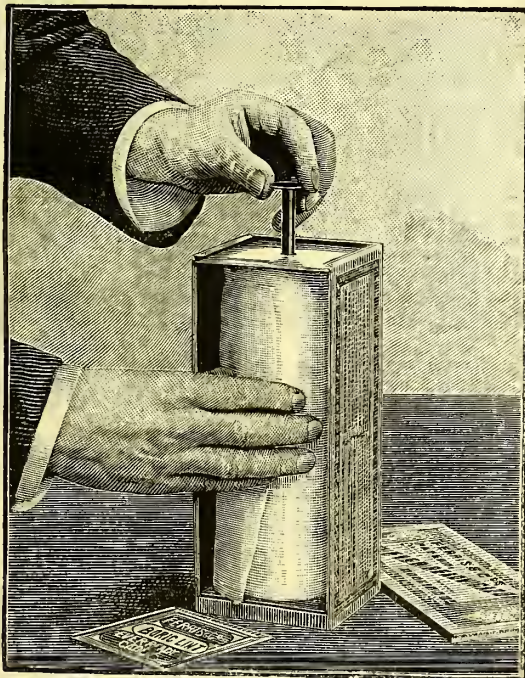
## "Ever-Ready" Plasters and Dressings.

### THE PATENT "EVER-READY" CADDY

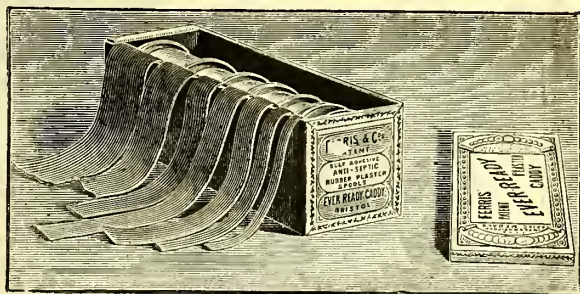
Is a novel and elegant invention for keeping Spread Plasters, Strapping, Lint, Wool, Antiseptic Gauze, Gutta Serena Tissue, Oiled Silk, and other Surgical Dressings, in perfect condition, clean, without waste, and in the smallest possible compass.



Dressings stored on this new patent principle are always handy and ready for use; the original outlay is very trifling, and the contents can be renewed from time to time without the necessity of purchasing a fresh Caddy.



Method of Refilling Caddy.



The "Ever-Ready" Cylinder Wound Plasters and Dressings for the Patent Caddy are supplied at rates which compare favourably with the prices charged for the old style of plasters, lints, &c.

The "Ever-Ready" Dressings SAVE WASTE, and are consequently CHEAPER TO USE.

#### "EVER-READY" PLASTERS

Cylinder wound in one continuous piece, 8 inches wide, spread on calico, swansdown, or felt, in rolls of 2 to 6 yards, according to material. Tape plasters, various widths, on spools.

#### "EVER-READY" PROTECTIVES

Cylinder wound, 8 inches wide. Gutta serena tissue 12 yards on a roll. Oiled Silk, Jaconet, and other protectives, 6-yard rolls.

#### "EVER-READY" LINTS

Half-pound rolls, cylinder wound in one continuous piece, 8 inches wide. All kinds of plain and antiseptic lints in stock.

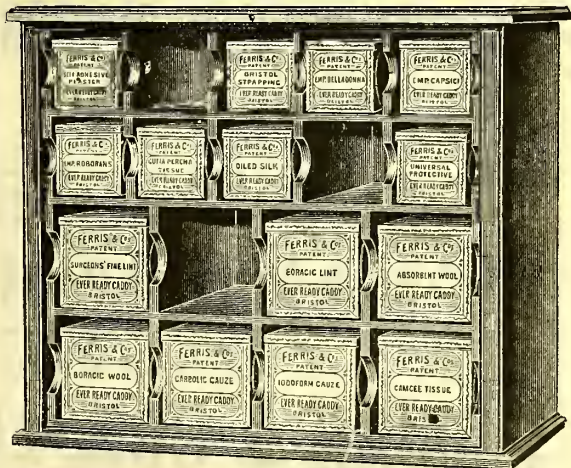
#### "EVER-READY" ANTISEPTIC GAUZES

Cylinder wound, 12 yards (full width) on each roll.

#### "EVER-READY" WOOLS

Cylinder wound, in rolls about 6 to 8 oz. each, 8 inches wide. Absorbent wools, antiseptic wools, Gamgee tissue, &c.

Each Dressing is fitted in a separate Caddy, which can be refilled as required.



MAHOGANY CABINET, holding Ten Small (A) and Eight Large (B) Caddies.

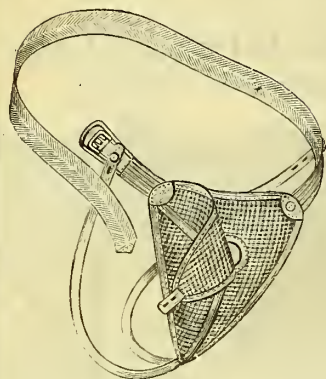
The PATENT CADDY is made in two Sizes, to suit different kinds of Dressings.

Prices and Full Particulars on Application to the Sole Patentees—

## FERRIS & CO., UNION STREET, BRISTOL.

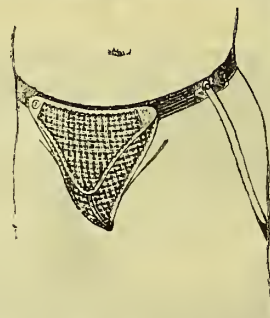


*Perfect Protection & Safety!*



THE  
**DOMEN "STOW-AWAY"  
SUSPENSORY BANDAGE**

IS AN ENTIRELY NEW PATTERN AND A  
GREAT IMPROVEMENT ON THE OLD  
SUSPENSORY BANDAGE.



**INDISPENSABLE FOR RIDING, CYCLING, &c.**

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**FOR BELLADONNA PLASTERS.** Superiority. Improved Base.  
Increased Results.

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Freedom from Elements of Change.

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**FOR LINTINE.** Superiority. Increased Absorbency.  
Economy in Use.

**FOR SURGEONS' LIGATURES.** Superiority. Sterilisation and Packing  
under Aseptic Conditions.

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(FORMERLY MOOR'S.)

Registered Trade Marks—{ "THE LEICESTER,"  
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## "THE LEICESTER" POROUS PLASTERS.



BELLADONNA

On Cotton Cloth.

STRENGTHENING

On Canton Flannel.

CAPSICUM

On Scarlet Felt.

7½ × 5 inches. In boxes of 2 dozen. Name and address of any Customer printed without extra charge on lots of one gross, which may be assorted.

## "The Leicester" Improved Adhesive Plaster

On Glazed Calico. In 3-yard, 6-yard, and 10-yard rolls. When required for a hot climate it is SPECIALLY PREPARED, TISSUED, and packed in boxes or tins.

## "The Leicester" Improved Adhesive Plaster



On Flesh-colour Cambric (Self-Adhesive), 16 inches wide, in 3-yard rolls, 7/6 per doz. yards; 6 inches wide, in decorated tins—1-yard lengths, 4/9 per dozen tins; ½-yard lengths, 3/6 per dozen tins.

## "The Leicester" Ribbon Plaster

On Flesh-Colour Cambric, in Japanned tins.

6 yards long—¼-in., ⅜-in., and ½-in., 5/- per dozen; ¾-in., 1-in., and 1½-in., 6/- per dozen; 2-in. wide, 8/- per dozen. Metallic Cases containing 8 assorted widths, 6/- per case.

## "THE LEICESTER" EMP. BELLADONNÆ

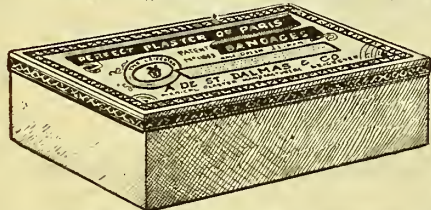
On Scarlet Felt, in tins of 1 yard, 7½-in. wide, 2/- per tin.



All Pharmaceutical Plasters on Moleskin, Swansdown and Felt, in Rolls, Tins, or Caddies.

## "THE LEICESTER" PERFECT PLASTER OF PARIS BANDAGES

(PATENT.)



Are NOT affected by age or exposure; HARDEN RAPIDLY and FIRMLY when applied; are FREE from GRITTIENESS, CLEANLY in use, FAR SUPERIOR to the old style, and SUITABLE for ANY CLIMATE.

5 yards long, 2½ inches wide, 7/6 per dozen; Thick, 8/- per dozen.

{Other widths are supplied if specially ordered.

## "NATIONAL" RUBBER ADHESIVE PLASTER.

(ANTISEPTIC.)

Will stick at once, and perfectly, in any temperature, without warming. In tins of 1 yard, 7½ in. wide, 1/- per tin.



On Spools containing 10 yards,  
¼-in. 9/-; ½-in. 10/-; ¾-in. 12/6;  
1-in. 15/-; 1½-in. 19/6; 2-in.  
23/-; 3-in. 30/-, per dozen  
spools.



THE ABOVE CAN BE OBTAINED FROM ALL WHOLESALE AND SHIPPING HOUSES.

Manufactured by A. DE ST. DALMAS & CO., Leicester.

Makers by appointment to the British Government.

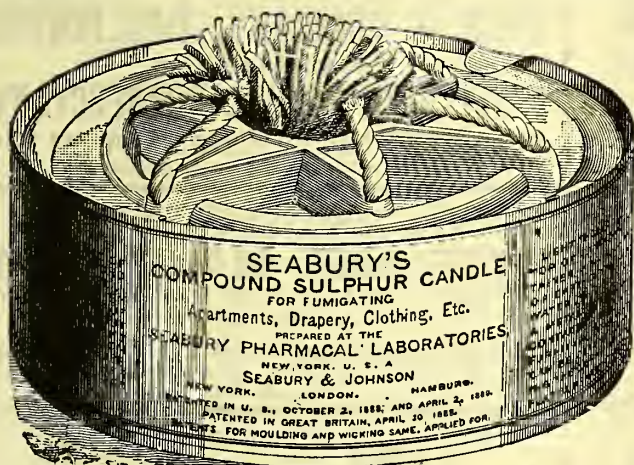


# SEABURY'S SULPHUR CANDLES

(PATENTED)

are the safest, surest, and most convenient form in which Sulphur  
can be burned indoors, for

## DISINFECTION BY FUMIGATION.



Large Size, retailing at 1s.

## Seabury's Sulphur Candles

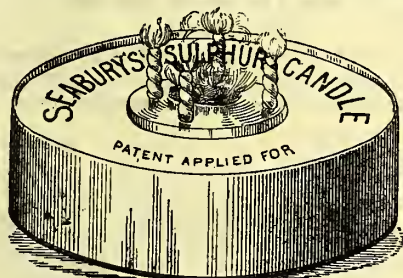
Will destroy disease germs after infectious diseases, in vacated apartments or hospital wards, also in bedding, clothing, and drapery.

Will destroy noxious vapours from sewers, cesspools, &c.

Will destroy insect pests and other vermin.

These candles afford a safe means of burning sulphur indoors, on board ship, &c., and are used and approved by Boards of Health and Sanitary Authorities in various parts of Great Britain and America, and were used to fumigate the Royal Courts of Justice, the Committee Rooms of the House of Commons, and the War Office after the Influenza epidemic.

One large candle will burn for two hours, and thoroughly disinfect a room of ordinary size.



Small Size, retailing at 6d.

This popular size of the SEABURY SULPHUR CANDLE is in a permeable container which absorbs the water in which it stands, and thus, bringing the water into actual contact with the burning sulphur, the candle really becomes a  
**NASCENT SULPHUROUS ACID CANDLE.**

SEABURY'S SULPHUR CANDLES may be ordered through any Wholesale House, but it is important to specify Seabury's, as in many cases mistakes have been reported.



Medical men are everywhere ordering SEABURY'S SULPHUR CANDLES (which burn readily and safely) as the most reliable means of disinfection extant after

**Diphtheria      Scarlet Fever      Small Pox**  
**Typhoid Fever      and other      Infectious Diseases**

FASSETT & JOHNSON, Sole Representatives of

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# FREDK. FINK & CO.

10 & 11 MINGING LANE, LONDON, E.C.

**SPECIALITIES:** Glycerine — Gum Arabic —  
Gum Tragacanth—Pure Beeswax—Honey.

## JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

**GOOD PROFIT GUARANTEED.**

WRITE FOR SAMPLES & TERMS,

LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

## THE "MORSTADT" Cachets

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 184 grains Quinine or Salicylic Acid.

"MORSTADT" OACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 5/6.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

## ROSS'S ROYAL BELFAST GINGER ALE

Sole Purveyors to Spicers & Pond (Lim.)



E. H. THIELLAY'S (Registered 1867)  
**EAU F. JOUVENCE, GOLDEN.**

Producing Flaxen Golden Hair.  
Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.  
This is a very superior article. In Bottles at 8/6, 9/-, & 10/-.  
All Wholesale Houses, or direct from

**E. H. THIELLAY**

Parfumeur-Chiniste, Amersham Park, New Cross, LONDON S.E.  
(SHOWROOMS AT CHARING CROSS HOTEL.) [3]

VINT'S PATENT  
3, 6 & 6, 6 dos.

**MENTHOL**

WHICH  
WON'T BREAK OFF.

See page 99 in Diary.



## GRETA PRÆCIP.

Much Lighter and Finer than any other in the Market.

Prices and Samples on application to SOLE AGENTS—

H. E. Stevenson & Co.,

130 Southwark Street, LONDON, S.E.

## CORNS ! BUNIONS ! NAILS !

And all Diseases of the Feet Successfully Treated, Without Pain, by  
**MR. GARDNER, 85 REGENT STREET, W.**  
Highest surgical testimonials (Sir Wm. Jenner, &c.). Also testimonials from the Prime Minister, Bishop of London, H.R.H. Prince Christian, &c.  
**CORN, BUNION,** and Chilblain Ointment absolutely cures gony and all painful affections of tender feet, soft corns, stiff and enlarged toes and joints, &c. Post free 15 stamps. **SKIN TONIC BALSAM** gives great Purity of Complexion, removes Redness, Roughness also promotes healthy action and Softness of the Skin. 19 or 38 stamps.

## PRECIPITATED CHALK, WHITEST & PUREST.

Specially prepared for Dentifrices and Toilet purposes.  
Guaranteed free from Iron or Acid. Cheapest Sellers in the Market.

**AUG. LEVERMORE & CO., 8 LIME STREET, LONDON, E.C.**  
Telegrams—"LEVERMORE LONDON." A.B.C. Code used.

Invaluable  
for

Cyclists,  
Footballers,  
Golfers,

## RYPONA

For Rheumatism, Lumbago, Sciatica, Sprains, &c.; also for Cuts, Wounds, Boils, and Skin Affections.  
Of all Chemists and Patent Medicine Vendors—  
Liniment, 1/11 & 1/9; Ointment, 7/1d. Wholesale of

Athletes,  
and  
anyone  
liable to a  
Chill.

**J. SANGER & SONS, 2 Winsley Street, LONDON, W.**  
Oxford Street,  
See page 46 (Lobum folio) of "The Chemist and Druggist," December 1, 1894.

## NESS & COMPANY, DARLINGTON,

**SPECIALISTS IN**

**SHEEP DIPS (Fluid, Paste, Powder) and DISINFECTANTS**

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

## GLENDENNING'S BEEF AND MALT WINE.

THE FINEST PREPARATION OF THE KIND IN THE MARKET.

Prices and terms on application. Agents appointed.

**W. GLENDENNING & SONS,** Importers of Special Wines for Invalids,  
9 GRAINGER STREET, NEWCASTLE-ON-TYNE.  
Established 1867.

## Yanatas

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THE ABSOLUTE PREVENTATIVE OF SEA SICKNESS.

Wholesale Agents—**DAKIN BROTHERS, 87A Leadenhall St., LONDON.**

## THORNTON-PICKARD

CATALOGUE  
POST FREE

ARE THE Time & Instantaneous  
**SIMPLEST & BEST. SHUTTERS**

LARGEST SALE IN THE WORLD.

Time & Inst. from 15/6; Snap Shot, from 10/-; Focal  
Plans, from 35/-

THE THORNTON-PICKARD MFG. COMPANY,  
ALTRINCHAM, NEAR MANCHESTER.



## This Space is Let for a Series to SAUNDERS BROTHERS,

Manufacturing Chemists, &c.

Offices: 6 ROCHESTER SQUARE, LONDON, N.W.

Keen Buyers of all CHEMICALS, DRUGS, and  
SUNDRIES should write for Quotations.

**ENOUGH FOR THE WISE**

## CHEMISTS' BOXES

Of New Design, Perfect Purity, & Perfection of Finish.

Chemists wanting either Choice Super Quality or Cheap Boxes should send for Price List and Samples to

**A. BARRY,**

35 LECONFIELD ROAD, HICHBURY NEW PARK, LONDON, N.

CHEMISTS' BOXES A SPECIALITY.



# IRISH VELS, A. & J. WARREN,

In 50 & 100 doz. Casks.  
IMPORTED BY

Wholesale Druggists and Methylated Spirit makers,  
Makers of Essence of Rennet for Cheese.  
Supplied in 40 and 20 gallon Casks and 10-gallon Tins, also in smaller  
packages, bearing their name.

23 & 24 REDCLIFF STREET, BRISTOL.

## HUGO LORENZ, 7, 8 Idol Lane, LONDON, E.C.

CHEAPEST HOUSE FOR THE FOLLOWING:—

Pot. Bromide	Sugar of Milk
Do. Iodide	Acid Boracio
Do. Permanganate	Iodoform

S.V.R. in 40-gallon drums, pure tinned.

## BENNETT & JENNER, STRATFORD, LONDON

SPECIALITIES:

Acid, Sulphurous	Caramel (Colouring)
Calcium Bisulphite	Solid and Liquid.
(Special for Export, s.g. 1100).	Hydrogen Peroxide
Calcium Sulphite	(Special for Export).
„ Chloride, Pure	Sodium Bisulphite
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## PROFITABLE EXTRAS FOR CHEMISTS.

# “MIXED PARCELS.”

Every requisite for Smokers in One order. Maximum of profit—  
Minimum of trouble.

Send Postcard for Illustrated Price List (60 pages) free.

SINGLETON & COLE, BIRMINGHAM.



## KOMCHACIN CALORIC

Has for Twenty Years Cured  
PILES, HEMORRHOIDS, AND FISSURE.

As this Remedy is now being extensively advertised,  
Chemists should write for particulars to Central  
Depôt for the United Kingdom,

23 The Pharmacy, Allerton, Bradford, Yorks.

Manager—A. A. KNIGHT, Chemist.

LARGE  
PROFIT  
TO  
RETAILER.

# COSMOSINE

THE ANTISEPTIC SALINE FOR THE BATH & TOILET-WATER.  
IMMEDIATELY SOFTENS HARD WATER.  
Refreshing and Invigorating, Delightful to the Skin.  
Prepared by COSMOSINE CO., Granby Row, Manchester.  
Exquisitely Perfumed. Retail: Boxes, 1s. and 2s. 6d.  
Terms direct, or through Wholesale Houses.

## DENTISTRY! DENTISTRY!!

Mechanical Dentistry for the Profession. In Gold, Dental Alloy,  
Valcanite Tubes, Celluloid, Gum Section.  
Repairs. Implicit Attention to Instructions. Best Work and Materials  
and Punctuality Guaranteed, and Lowest Charges.

FENTIMAN & CO., Dentists, 2 Upper East Smithfield, London.  
The only Address. Please note down Address and Name. [Established 1835.]

## “SILVERY WHITE GUTTA PERCHA ENAMEL” TRADE MARK.



P. A. STEVENS, Surgeon-Dentist,  
72 MANSFIELD ROAD, N.W.,  
SOLE PROPRIETOR AND MANUFACTURER.

Registered—No. 2745  
Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name.  
A sample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.

Chemists  
should  
try our new  
**2d.**  
Line.

## LAKE MILLAR'S INFECTION KILLER.

PRICE 2d. EACH.  
Handsomely put up in Glass-top Cases.

Sample Case post free for 3/- of

LAKE, MILLAR & CO., Manufacturers,  
Handsworth, BIRMINGHAM.

Thousands  
already sold.  
Repeat orders  
from every  
customer.  
Give it a trial.  
Money  
refunded with  
pleasure  
if you are not  
satisfied.



## L. A. DELATOUR FRÈRES,

A RAVILLOLES PAR ST. LUPICIN, JURA, FRANCE.  
(Late Alphonse Delatour. Established 1829.)  
Manufacturers of Turnery Goods in Bone, Horn,  
Boxwood, &c.

Specialities of Bone Pipes for Enemas and  
Injection Bottles. Articles of every description for  
Surgical and Chemical Appliances. Bone Ring Set-  
tings for Baby Comforters, and New Patent  
Teething Pads. Very low prices.

Prices and Samples on application.



PROVISIONALLY

PROTECTED.

HAMBRO SPECKLED



TRADE MARK  
REGISTERED.

All Orders, by Post, receive immediate attention.

## LEECHES!

Warranted Healthy.

Wholesale and for Exportation.  
Direct from Marshes.

FITCH & NOTTINGHAM,

LEECH BREEDERS,

4 CANONBURY SQUARE, LONDON, N.

## LONDON HOMOEOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

Contains 80 beds, and, being entirely supported by Voluntary Contributions,  
Donations and Annual Subscriptions are earnestly solicited. The Hospital is  
always open to the inspection of visitors, and Clinical Instruction is given in the  
Wards and Out-patient Department to Medical Students and Practitioners. It  
possesses a valuable Library of Homoeopathic Publications, which Medical Men  
are invited to study. They are also invited to visit the Dispensary. The  
In-patients number over 300 annually; the Out-patients nearly 5,000 annually.  
The number of Patients treated since the inauguration in 1849 exceeds 215,000.  
It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their  
residences.  
G. A. CROSS, Secretary-Superintendent.

# HOMOEOPATHICS

WATSON & WATES'  
REDUCED PRICES.

EVERY CHEMIST SHOULD SEE NEW LIST.

1/- SIZE 3/- DOZ.



## GOOD LINES FOR CHEMISTS' SPRING TRADE.

### SPONGE BAGS. NEW. CHECK SATTEEN.

No. 1 2 3 4 5 6 7  
5/9 7/- 8/6 10/- 12/- 14/- 16/-  
per doz.  
Order above as Check pattern  
to prevent error.

### SPRAY PRODUCERS. DOUBLE BELLOWS.

14/- 15/- 20/- 27/- 30/- 33/-  
per doz.

### PUMP ACTION.

30/-, 36/-, and 39/- per doz.

### FANCY PERFUME BOTTLES.



FLASK SHAPE.  
As Fig. A.

SWAN NECK.

4-, 4/6, and 5/6  
per doz.

A Large Assortment  
kept in Stock.

For Illustrations see  
New List.

### PHOTOGRAPHIC SUNDRIES

Supplied at Low Rates.

### SPONGES ON CARDS

at Half the marked Retail Prices.

### FLESH GLOVES.

Per doz. pairs.  
3/4. Turco, White .. 1/10  
6/4. " Bound .. 2/8  
6/4. " Bound .. 3/-  
1s. " Super .. 4/-  
1s. " Super .. 5/-  
1s. Calefaeo, Browa .. 4/6  
&c., &c., &c.

### PERFUMES.

6/4. Globular .. 3/9  
1s. " .. 7/-  
Above are quite new, and are  
selling well.

### SMELLING - SALT BOTTLES.

New Emerald Green, very pretty;  
Assorted Patterns.  
1s. Retail .. per doz. 8/-  
Also Coral, Amethyst, and Crystal  
Glass.  
Over 200 patterns to select from.

### ENEMAS.

Cheap Black .. 19/6  
" Flexible .. 21/-  
" Favorite .. 22/-

## Shirleys' Corner!

### MENTHOL CONES.

1d. at 6/3, 6/11, 7/2 per gross.  
2d. Pedestal 14/-  
2d. Pocket 14/-  
3d. Pedestal 1/10 dozen.  
6d. Flat .. 3/3 "  
1/- " .. 6/3 "  
1/- " .. 7/- dozen.

Insist on  
Menthol being  
on New  
Registered  
Head Card.

### SOOTHERS.

1d. Cord .. 7/- gross. 3d. Bone Ring 1/6, 1/8, and 1/10  
1d. Ring .. 8/6 " 3d. Celluloid Ball .. 2/-  
2d. " .. 14/- " No. 21 Coloured Mount Bone  
Sale and Order 2d. Wonder 10/- Ring .. 2/8  
on our 3d. Rubber 2/- doz. No. 21R Coloured Mount  
Splendid Head 3d. Cord .. 16/- gross. Rubber Ring .. 2/9  
Card—Baby with mouth open No. 24 MOTTLED .. 2/10  
and soother in it! No. 20 6d. Solid Corrugated 3/6

**FULLER'S EARTH.**—Special Value in Coloured Card  
Barrels. 14/- gross and 2/- dozen.

**VIOLET POWDER.**—In beautifully decorated Tin. 3/6 doz.

**At Eucalyptus Shells,** 6/6 gross **At Pocket Eucalyptus Disin-**  
Ditto (Reg.), with mirror, 7/- **fectant,** in perforated pocket tins,  
7/- gross.

**CACHOUS.**—Beautiful Pocket Tin, filled .. 7/- per gross.

No. 356.—**New Feather Monster Salt Bottles,** Assorted Colours.  
Empty, 2/9 dozen. Filled, 3/6 dozen.

No. 357.—**Wide-Mouth, Flat-Headed, Clear Smelling Jar.**  
Suitable for Ammonia Balls and Coloured Liquid, 4/- dozen.

**SPECIMEN STAND.** Tube Shape. Conical Glass Stopper  
7/- dozen. Never such Value Known!

Large Buyers.—Write to **SHIRLEYS'** before ordering  
a quantity of anything. You will save money by  
doing so.

**SHIRLEY BROS.,** 105-7 WHITECROSS ST., E.C.

**FRANCIS NEWBERRY & SONS,**  
**DRUGGISTS' SUNDRIESMEN,**  
1 & 3 KING EDWARD STREET, LONDON, E C

# WHY PAY FINES?

5/-

## SEIDLITZ POWDERS, B.P.

HAND WEIGHED, HOWARD'S SEIDLITZ, BEST ENGLISH ACID.

PER GROSS, IN ONE BOX.

IN 12 BOXES, 12 IN EACH,  
Neatly Labelled and Wrapped.

5/6

**BARCLAY & SONS, Ltd.,** 95 Farringdon Street, LONDON.

## THE CHEMISTS' ASSOCIATION, LTD.

MANUFACTURERS,

**DRUGGISTS' SUNDRIESMEN, &c.**

Telegraphic Address—"BEATROP LONDON." Telephone No. 11,391.

## OUR NEW ILLUSTRATED PRICE LIST

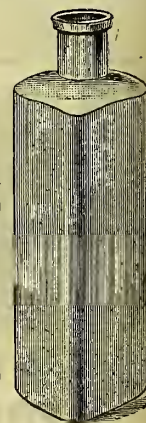
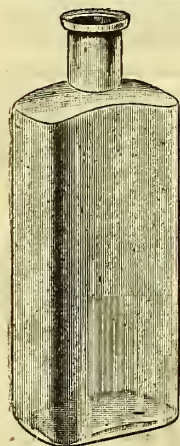
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1895

POST FREE

ON APPLICATION TO ANY PART OF THE WORLD.

CURTAIN ROAD, LONDON, E.C.





**SURGICAL DRESSINGS,**

**FLAX AND COTTON**

**LINT**

**COTTON WOOLS,**

**BANDAGES,**

**GAMGEE TISSUE.**

**ABSORBENT**

**ABSORBENT**



TRADE MARK (REGISTERED).

# ANTISEPTIC DRESSINGS

MANUFACTURED BY

## ROBINSON & SONS, Ltd.

COTTON SPINNERS, WEAVERS AND BLEACHERS,

**WHEAT BRIDGE MILLS, CHESTERFIELD,**

And 55 Fann Street, Aldersgate Street. LONDON, E.C.

ASK FOR ROBINSON'S "STAG" BRAND WHEN ORDERING FROM THE WHOLESALE HOUSES.



**PERFORATED  
ROLLS**

FROM

**24/-**

**Per Gross.**

**PRICE LIST  
ON APPLICATION.**



**BANNER STREET, LONDON, E.C.**

## TO THE TRADE.

No more Weeds! Noxious Vegetation of every description permanently destroyed by one application.

## THE "ACME" WEED KILLER

IS RECOMMENDED BY

*Mr. W. G. HEAD, Crystal Palace,*

*Mr. LYNCH, Curator, Botanic Gardens, Cambridge,*

And others, for destroying Weeds on Garden Walks, Carriage Drives, Roads, &c.

One application will keep Walks, &c., clear of Weeds for Eighteen Months.

RETAIL PRICES.—In 1 and 2 gall. tins, 2s. per gall. (tins included); 5-gall. drums, 1s. 6d. per gall.; 8 galls., 1s. 5d. per gall.; 10, 15, 18, and 20 galls., 1s. 4d. per gall.; in 40-gall. casks, 1s. 3d. per gall. Used in the proportion of 1 gall. to 25 galls. water, and applied with an ordinary watering can.

### DOUBLE STRENGTH.

If desired we can supply the "ACME" WEED KILLER *double strength* 1 gall. to be mixed with 50 galls. of water, especially suitable for export.

RETAIL PRICES.—1 and 2 gall. Tins, 3s. per gall. (tins included); 5 galls., 2s. 6d. per gall.; 8 galls., 2s. 4d. per gall.; 10, 15, 18, and 20 galls., 2s. 3d. per gall.; 40-gall. casks, 2s. per gall.

Carriage paid on 6 galls. in tins, or 5 galls. in drum.

### POWDER WEED KILLER.

In tins, 2 lbs., sufficient for 25 galls. water. Prices on application.

TRADE TERMS ON APPLICATION.

We shall be pleased to supply (gratis) illustrated circulars with the name and address of tradesmen printed thereon, show card, &c.

**THE ACME CHEMICAL CO., LIMITED,**  
**TONBRIDGE, KENT,**  
And **CARLTON STREET, BOLTON, LANCs.**

AGENTS WANTED EVERYWHERE.



# HAWLEY'S COUNTER ADJUNCTS.

With Chemist's own Name and Address printed free for 3 dozen.

"The Counter Adjunct," a monthly leaflet of novelties in Materia Medica and Adjuncts, post free on application.



**CASCARA LAXATIVE PILLS.**

**SMALL LAXATIVE PILLS.**

**SMALL FEMALE PILLS.**

**SMALL LIVER PILLS.**

**COMPOUND CASTOR OIL PILLS.**

**DAMIANA PILLS.**

**QUININE AND IRON TONIC.**

Style.—In Screw-capped Bottles, 2 sizes, with Artistic Labels in Colours.

Price.—6d., 3/6; 6 doz., 3/3; 12 doz., 3/-.  
1/-, 6/6; 6 „ 6/3; 12 „ 6/-.

Name, &c., FREE for 3 dozen.

6d., 3/9; 6 doz., 3/8; 12 doz., 3/6.  
1/-, 7/-; 6 „ 6/9; 12 „ 6/6.

7/6; 6 doz., 7/3; 12 doz., 7/- per dozen.

N.B.—Name and Address on all free for 3 dozen.

[2]

**EVANS, LESCHER & WEBB,**

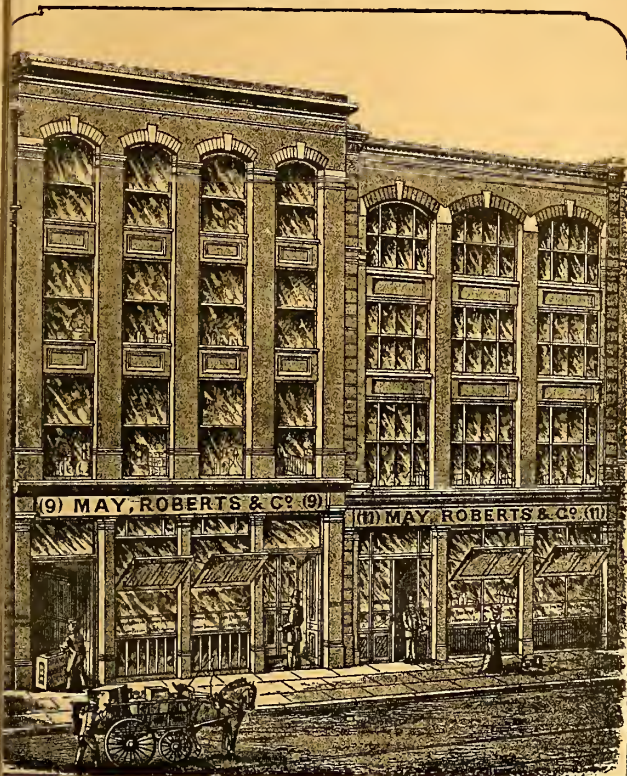
60 BARTHOLOMEW CLOSE,

**LONDON.**

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MONTREAL (CANADA):  
EVANS AND SONS (LIM.).





REVISED JANUARY, 1895.

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Their Expenses Given to Buyers.

## DRUGGISTS' SUNDRIES.

## PACKED DRUGS & PERFUMERY.

## PATENT MEDICINES.

SPECIAL QUOTATIONS FOR QUANTITIES.

List sent Post Free on receipt of Business Card.

TERMS ON APPLICATION.

☛ COMPARE THE PRICES. SEND SAMPLE ORDER.

# GREEN FLINT DISPENSING BOTTLES

FLAT WITHOUT EDGES, OR OVAL.

PRICES: FROM LONDON STOCK.

*QUININE TINT. W. Brand.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
9/-	9/-	9/3	10/9	10/9	12/-	12/-	18/-	18/-	21/6	27/-	32/6	43/-	49/- per gross.

*QUININE TINT. M.R. Brand. Very Best Quality.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
8/9	8/9	8/9	9/10	9/10	11/3	11/3	16/9	16/9	20/-	24/-	30/-	40/6	47/- per gross.

*ORDINARY TINT. M.R. Brand. Second Quality.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
6/7	6/7	6/7	7/3	7/3	8/6	8/6	10/9	12/3	16/10	19/3	22/9	26/6	29/- per gross.

PRICES: IN CRATES SENT DIRECT FROM THE WORKS.

*W. Brand.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
8/10	8/10	9/-	10/3	10/3	11/6	11/6	17/6	17/6	21/-	26/-	31/6	41/6	47/- per gross.

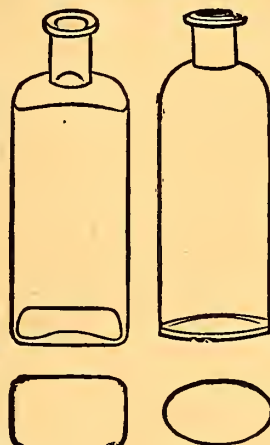
*M.R. Brand. Very Best Quality.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
8/7	8/7	8/6	9/4	9/4	10/9	10/9	16/-	16/-	19/-	23/-	28/6	38/6	45/- per gross.

*M.R. Brand. Second Quality.*

1	1 1/2	2	3	4	6	8	10	12	16	20	32	40	ounce.
6/5	6/5	6/5	7/-	7/-	8/-	8/-	10/3	11/9	16/-	18/3	21/9	25/3	28/9 per gross.

USUAL TERMS. NOT LESS THAN £5 WORTH CARRIAGE PAID.



# MAY, ROBERTS & CO., 9 Clerkenwell Road, LONDON.



# Cadbury's Cocoa

ABSOLUTELY PURE  
therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst*.

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

## *Apollinaris*

## *Hunyadi János*

## *Friedrichshall*

NATURAL MINERAL WATERS.

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Single Cases Delivered in London, and, at the Same Prices,  
Carriage Paid, to any Railway Station.

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APPLY TO

THE AFOLLINARIS COMPANY, LIMITED, 4 Stratford Place, Oxford Street, London, W.



# The Chemist & Druggist

## SUPPLEMENT.

Businesses Wanted  
Businesses for Disposal  
Premises to Let  
Auction Sales

SATURDAY, APRIL 20, 1895

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

## CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£1,300.—LONDON.—Small Select Wholesale; established many years, no heavy business, present returns £1,300, *very profitable*; good business premises and residence; full investigation permitted; about £1,000 required.

2.—£700.—LONDON BRIDGE (NEAR).—Retail and Dispensing Business; *all profitable good trade*; returns £700; situate in a main thoroughfare; the position offers a good opportunity to an energetic man; price £525.

3.—£800.—LONDON (EASTERN SUBURB).—For disposal, middle-class Retail and Prescribing Business, situate in a market-place; excellent position; returns present rate over £800; *profits good*; well-fitted shop, double-fronted; convenient house, on lease; price £600.

4.—£600.—LONDON.—Retail Business, situate in a very busy thoroughfare; returns present rate £600 yearly; vendor having other business elsewhere; single-fronted shop, plate glass, ample stock; comfortable residence, held on lease; terms, valuation and small premium for goodwill, or reasonable offer entertained.

5.—£400.—LONDON (WESTERN SUBURB).—Death vacancy; for immediate disposal, Retail Business, very old-established, position good; returns present rate over £400 yearly; *profits good*; small house, detached warehouse, &c.; rent moderate; on lease; price £400, or offer.

6.—£.—LONDON, N.—Retail and Prescribing Business, situate in a good class locality; corner position; returns present rate £5 weekly; can be largely increased; nicely-fitted shop; comfortable house; rent £40; on lease; terms, valuation of stock and fixtures.

7.—£600.—LONDON, S.E. (SUBURB).—Middle-class Business, Retail and Dispensing, situate in a good locality; returns under management £60 yearly; shop nicely fitted and stocked; moderate rent; terms, valuation of stock and fixtures only.

8.—£900.—NORTH OF ENGLAND.—High Class Pharmacy; very old established; held by present vendor 40 years; present returns between £800 and £900 yearly; *profits good*; single-fronted shop; lock-up pharmacy; £550 required.

9.—£1,300.—UPPER THAMES.—Mixed Business; no heavy trade; situate in a very pretty locality; within easy distance of London; returns average £1,300 yearly; easily increased; *profits very good*; double-fronted shop; ample shop; convenient house; lease to be granted; terms, valuation and premium to be arranged.

10.—£1,200.—BEDFORDSHIRE.—For disposal, Middle Class Retail, Prescribing and Dispensing Business; situate near the railway station; large and important town; returns present rate between £1,100 and £1,200; no heavy trade; nicely fitted shop; small house; moderate rent; price required, £750.

11.—£600.—SOUTH COAST.—First-class Dispensing Business, situate in a fashionable town and health resort; returns average for the past three years about £600, and every facility for a considerable increase; comfortable residence, private entrance, garden, and warehouse, on lease; price £500.

12.—£400.—SOUTHAMPTON (NEAR).—Middle-class Retail Business, situate in a good market town; returns present rate about £400 increasing; single-fronted shop and ample stock; capital house, with private entrance; price £250; part can remain.

13.—£1,000.—HERTS.—An Old-established Business (Mixed), situate in large agricultural centre, offering scope for considerable expansion; an energetic man only required; returns over £1,000; *good profits*; well-fitted and stocked shop; commodious house; good warehouse room and yard; terms, valuation of stock and fixtures.

14.—£620.—UPPER THAMES.—Retail Prescribing and Dispensing Business, situate in a main thoroughfare; capital position; returns for 1894 £620; *profits good*; nice house, in good repair; moderate rent; on lease; price £600 or reasonable offer.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

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## TENDERS.

PRESTON, LANCASHIRE.

**TENDERS** are invited for the purchase of the Business of W. J. T. Jackson, Chemist and Druggist; connection very old-established, and premises situate in principal street; tenders to be sent in on or before Tuesday, 23rd April. For full particulars apply, John C. Forrester, Chartered Accountant, 18 Acresfield, Bolton.

LAMBETH VESTRY.

TO CHEMICAL MANUFACTURERS AND DEALERS IN CHEMICALS.

**THE** Vestry of the Parish of Lambeth hereby give notice that they are desirous of contracting for the following articles, viz.:—Pure Liquid Carbolic Acid, Commercial Liquid Carbolic Acid, Carbolic Powder, Obolinated Lime, Sulphuric Acid, Sulphur of Commerce. Specifications and particulars, with forms of tender, can be obtained upon application to the Chief Inspector, at the Sanitary Offices, 333 Kennington Road, between the hours of 9 and 12 o'clock. Sealed tenders, directed to the Vestry, and marked "Tender for Disinfectants," must be delivered at the Vestry Hall not later than 4 o'clock on Thursday, May 2. The Vestry do not bind themselves to accept the lowest or any tender.

By Order,

HENRY J. SMITH, Clerk to the Vestry.

Vestry Hall, Kennington, April 9, 1895.

## TO LET.

**TO** Chemists.—To Let, good, well-lighted Basement premises; busy neighbourhood, near Liverpool Exchange; moderate rent; good opening. Apply, Wrigleys, 20 Hacksins Hey, Liverpool.

**EXCELLENT** opening for Chemist and Druggist in suburbs of Reading; 7-roomed house, with double-fronted shop, garden, back entrance; main road. For particulars apply to Owen Phillips, Builder, 27 Highgrove Street, Reading.

**CHEMISTS** and Druggists.—New Shop, Railway Street (old railway-station site), Bowdon, near Manchester; splendid position for Druggists; handsome shop; plate-glass front; electric light. Radcliffe, Solicitors, 1 Victoria Street, Liverpool.

**SHOP.**—To be Let, noble shop, eight exceptionally comfortable dwelling-rooms; very large yard or garden, back entrance, &c.; main road, East London; near Midland and Great Eastern stations; splendid opening for a Chemist; rent £50. Apply to landlord, Mr. Bacon, 25 Liverpool Street, E.C.

**SHOP** and two rooms, ground floor, to let; facing Hyde Park; unique position; rent £250, and £250 premium; splendid position for branch shop or opening for first-class chemist. Address: "Hyde Park," 225/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.



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**SOUTH WALES.**—£1,000 returns.—Shipping and retail, capable of being doubled; price £300.

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**DERBYSHIRE.**—£720 returns.—Retail with Gilbey's Agency; price £400.

**DEVONSHIRE.**—Branch Retail returning under poor management, £5 week; price £175.

**LONDON, S.W.**—£1,000 returns.—Dispensing and light retail with good proprietaries; price £800.

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30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 25 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers the largest experience of any in the Trade. VENDORS placing their Businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

## BUSINESSES WANTED.

1.—**SOUTH COAST.**—First-class Retail and Dispensing Business, occupying splendid position in fashionable town; capable of being much increased, not neglected; price £550.

2.—**LEICESTER.**—Excellent position; returns £800, under management; rent £40; good house; business capable of increase; price £600, or offer.

3.—**LEICESTER.**—Retail and Prescribing Business; returns £350; capable of doing £1,000; excellent position; low rent; shop is well fitted and stocked; price £150.

4.—**KENT.**—Near the Sea; Retail and Prescribing Business; returns £650; very profitable; low rent; good house; price only £450; valuation terms arranged.

5.—**MIDLANDS.**—Small town; population 10,000 and only two others; returns £700; net profit £200; good house; price £400; good position in Market Place.

6.—**LONDON (Northern Suburb).**—Fine position; Retail and Dispensing Business; returns £950; excellent profits; low rent; good house; satisfactory reasons for selling; price £750.

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**DERBYSHIRE.**—Old-established Retail Business, returning £950 a year, with good old-fashioned house; rent £80; price £800.

**LONDON, S.W.**—Retail and Dispensing Business, with good house; price £1,000.

**HOME COUNTY.**—Family and Dispensing Business; returning over £2,000; with good house and garden; price about one year's returns.

**LINCOLNSHIRE.**—Retail, Dispensing, and Agricultural Business; returning £550; rent £70; price £300.

**MIDDLESEX.**—Small Retail and Prescribing; returning £350; good house; rent £60; price £215.

**LONDON, N.**—Prescribing and Dispensing Business; returning £650 a year; rent £70; price £550.

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Birmingham, £650; Manchester, £1,200; Liverpool, £250, £200; Sussex, £300; Hants, £500; Leicester, £650; Lancashire, £200, £220; London, £500, £400, £100, £225; Staffordshire, valuation; Sunderland, valuation; Wales, £500, £2,000, £1,500; Glamorgan £500.

**NO CHARGE TO PURCHASERS.**

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Near Liverpool, about £700; Cheshire Country Town, £700 or £800; West of England, £800; South, £500; South Midlands, £1,000, £600.

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## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**FOR** immediate Disposal, an old-established Business with shipping connection; no reasonable offer refused; selling through death of proprietor. 27 High Street, Poplar, London, E.

**£220** Cash; immediate disposal; genuine Prescribing Business in Lancashire town; full investigation to bona-fide purchaser; good profits; must sell. Address, "Koko," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**GOOD-CLASS**, profitable, ready money Business; very few patents; suit qualified or unqualified man; healthy neighbourhood, S.E.; returns under management £13 weekly; must be sold. Offers, "Manager," 121 Lewisham High Road, S.E.

**SMALL** Retail and Prescribing Business in S.E. district to be sold; returns between £5 and £6 weekly; rent £35 per annum, £12 let off; price to immediate purchaser for cash, £150. Address, in first instance, to S., 22 Park Road, West Dulwich, S.E.

**ACCRINGTON**, Lancashire.—For immediate Disposal, in consequence of the death of Mr. Edward Astin, the business of Chemist and Druggist carried on by him for the last 31 years; a splendid situation in one of the main thoroughfares of the town. Apply, Mrs. Astin, 40 Beech Street, Accrington.



## SITUATIONS OPEN—Cont.

**ASSISTANT** required for good Retail, Dispensing, Prescribing and Photography. In reply give full particulars of experience, age, height, references, salary required, and if convenient enclose photo (returnable), H. S. Pearmund, Pharmaceutical Chemist, Hereford.

**ASSISTANT**, with Minor qualification and of good address; indoors; age 21 to 26; one accustomed to the Chemical, Photographic, and Scientific Apparatus trade preferred, but not essential. Full particulars and photo, if possible, to Cave, Dispensing and Photographic Chemist, Southport.

**WANTED**, immediately, Junior, accustomed to an Agricultural and Family trade, and able to Extract Teeth; indoors only; comfortable home. Apply, stating age, height, and salary required, to H. O. Webb, Pharmaceutical Chemist, Buckingham. Please enclose photograph, which shall be returned.

**ASSISTANT** and Apprentice wanted.—A qualified Assistant (indoors), aged about 23, for a permanent situation; state full particulars, salary required, and enclose photograph, if convenient. Also an Apprentice, aged about 16, who has passed Prelim. exam. Apply to Gordaier, Chemist, Sittingbourne.

**CAMBRIDGE**.—Wanted, qualified Manager to open new Branch; must be young, energetic, and a first-class business man, as well as an accomplished chemist; able to manage a brisk, high-class business. State age, references, salary required, to Jesse Boot, Managing Director, Boots (Limited), Nottingham.

**SENIOR** and Junior Assistants wanted, of steady, business-like habits and good height, appearance and address; Senior qualified, aged 25 to 30, outdoors; Junior about 23, indoors, and no qualification necessary. Applicants will please state salary required, and enclose photo to Mr. W. V. Wright, Broadway, Hammersmith.

**WANTED**, immediately, a Senior/Assistant for a high-class Dispensing business; good pushing Counterman; one having first-class Store experience preferred; six others kept; salary £120, outdoors; state age, height, and full particulars; send photo. Apply to 224/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER**.—A provincial firm, having several retail Drug-stores, require a Manager to superintend them; he must undertake the advertising and the preparation of price-lists, circulars, &c.; salary £200. State experience, age, and other usual particulars, enclosing photo, to 223/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£100**.—Sound paying investment; without risk, and substantial remuneration as manager. Good business; near a city bridge. Assistant also required. Advertisers would also negotiate for acquiring other businesses suitable for stores (no goodwill will be paid), and would entertain applications from vendors in difficulties who might be employed as managers at reasonable remuneration. "Confidence," 42 Cannon Street, E.C.

## SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

**PART-TIME**; with Chemist or Surgeon; abstainer. J., 62 Lambeth Road, S.E.

**JUNIOR**; outdoors; 22; 8 years' experience. J. M., 17 Bowmont Street, Kelso.

**LOCUM-TENENS**; aged 22; London preferred; disengaged. 18 Bridge Street, Llangollen.

**IMPROVER**; 3 years' experience; London preferred; indoors. X., 55 High Street, Leamington.

**WHOLESALE**; as Improver; 19; experienced. Bennett, 20A Peabody Square, London, N.

**AS** Assistant; age 28; competent Dispenser or Counterman. "Extractor," 69 Church Road, Canonbury.

**LOCUM-TENENS**; aged 28; disengaged; Extractor. 2 Horton Street, Lewisham, London, S.E.

**WHOLESALE** or Export, Wet or Dry; experienced. Forbes, The Village, Tarland, Aberdeenshire.

**LOCUM**; aged 36; qualified; Extractor; good references. Newcombe, Lilymead Avenue, Knowle, Bristol.

**NO SALARY**.—Lady as Improver. X. Y. Z., c/o Sub-Librarian, Literary Society, Tunbridge Wells.

**JUNIOR**; aged 21; height 5 ft. 10 in.; 6 years' first-class references. Ridge, 4 Upper Vernon Street, W.C.

**JUNIOR**; 21; 3 years' good General experience; height 5 ft. 8 in. Davies, 79 Lorrimer Road, Walworth, S.E.

**LOCUM**, or permanent Branch Manager; qualified; middle-aged; good references. 36 Wrexhamfechan, Wrexham.

**MANAGER**, Senior or Temporary; qualified; experienced. "Dens," 53 Middlewood Street, Gorton, Manchester.

**ASSISTANT**; 26; disengaged; first-class Counter and Dispensing experience. Hanson, Castie Street, Sleaford.

**DISPENSER** or Assistant; 27; outdoors; best experience and references. H. S., 72 Westminster Bridge Road, S.E.

**ASSISTANT**; whole or part time; aged 28; outdoors; best experience and references. S. W., 82 Walworth Road, S.E.

**SUNDRIES**, Wholesale and Export; smart Warehouseman; 22. J. A. F., 40 Huntingdon Street, Barnslury, London.

**MINOR**, disengaged, requires Part-time or Permanency; London experience. Jones, 55 Gloucester Street, Belgravia.

**TO** Wholesale Druggists; a situation by a thorough practical man; 14 years' retail experience. "Alpha," 16 Chelverton, Putney.

**JUNIOR**; 20; 5½ years' experience; good references; disengaged early part of May. Robertson, 25 Melbourne Street, Leicester.

**MANAGER** or Senior; 11 years' experience; aged 27; height 5 ft. 8 in.; Minor qualification. O. P., The Manse, Minsterley, Salop.

**ASSISTANT**; 24; qualified; London and store preferred; wholesale entertained. "Chemist," 63 Monument Road, Birmingham.

**ASSISTANT**; aged 26; height 5 ft. 9 in.; 10 years' first-class London references; outdoors. Wyatt, 4 Upper Vernon Street, W.C.

**MANAGER**, Locum, or Assistant; married; abstainer; Extractor; Stores not objected to. B., 17 Stafford Road, Brixton, S.W.

**TEMPORARY** Assistant; London or South; first-class experience; aged 22; height 5 ft. 10 in. S., 49 Gilbert Road, Kennington.

**MANAGER**; 20 years' experience; qualified; tall. "Helium," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WHOLESALE**; Dry Counterman; 6 years' reference. "Boracis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR**; 22; height 5 ft. 9 in.; Extractor, Photography; disengaged about May 20th. C. D. Blakeman, c/o Mr. Blades, Chemist, Leek.

**MANAGER**, with view to succession; aged 31; London and Continental experience. C., 82 Belsize Road, South Hampstead, N.W.

**AS** Dispenser; young Lady seeks engagement, privately or otherwise; Apothecaries' Hall qualification. F. P. H., Burgess Farm, East Ham.

**CHEMIST'S**, Dentist's Assistant; aged 21; 5 years' experience Chemist; 1½ years Dentistry; highest references. Henderson, 417 Strand, W.C.

**EXPERIENCED** Dispenser, Bookkeeper; outdoors; good Tooth Extractor; Midwifery; understands Retail. O. B., 91 Approach Road, E.

**OUTDOORS**; Assistant; good all-round experience; aged 30; low salary; comfortable situation; disengaged. L., Banbury Villa, Putney.

**ASSISTANT**, in good-class Dispensing business; good experience; highest references. "Exalgin," Ovelly House, Florence Road, Brighton.

**DISENGAGED**; industrious man; General Mixed experience; not Dispensing; unqualified; abstainer. "Willug," 60 St. Andrew's, Uxbridge.

**ASSISTANT**; 23; outdoors; used to Store trade; good Dispenser. "Amadou," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR** or Improver; 18; 3 years' experience; accurate Dispenser; well recommended; West of England preferred. F. Long, Stambrey House, Fishponds.

**LOCUM-TENENS**; many years' experience in London and country; first-class references; disengaged. "Chemist," 54 Weltje Road, Ravenscourt Park, London, W.

**MINOR**, reading for Major, seeks engagement in Manchester or immediate neighbourhood. "Veritas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AN** experienced Chemist can give several hours daily in the Retail, or as Surgeon's Dispenser, London. 221/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LABORATORY** Assistant; well up in the manufacture of chemicals, B.P. preparations, and aerated waters. "Percolator," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, Full or part time, with medical man preferred, but not essential; quick and accurate Dispenser; excellent references. Address, J. P., 7 Constantine Road, Hampstead, N.W.

**TRAVELLER** seeks re-engagement; ground, North of England; total abstainer; good references and security. Address, 173/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMIST**; disengaged; London or suburbs; accustomed to first-class Stores; energetic, and thoroughly experienced. Address, 223/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MINOR** (29), last 6 years managing extensive Mineral Water Works, wants situation; part time in shop, part in Mineral Water Works. "Minerals," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**GENTLEMAN**, working Southern Counties, calling on Chemist, for an important London firm, seeks an additional commission, with part expenses; drugs, sundries, or specialties; good firms only. B., 9 Belle Vue Terrace, Southsea.

**T. JOHNSON**, Chemist, Latypool Road, Birmingham, recommends a reliable qualified man (24) as Assistant or Manager; good all-round experience; a good salary will be required, but satisfaction guaranteed to anyone employing him; disengaged May 1st.



## SITUATIONS OPEN—Cont.

**AN** Assistant, with Minor qualification, aged about 22. Apply to "Chemist," 323 Kentish Town Road, London, N.W.

**QUALIFIED** Assistant (indoors) for Light Retail and Dispensing. J. Gibbs & Son, The Central Pharmacy, Eastbourne.

**PART-TIME.**—Qualified Assistant wanted; could reside on premises. Personal application only, Crogden & Co., 45 Wigmore Street, W.

**WANTED**, an Assistant with Minor qualification. State age, height, and salary required, to A. B., 142 High Street, High Barnet.

**WANTED**, Junior or Improver for a quick Cash business; must be active, willing, and obliging. Full particulars, Goodall's, Mexboro, Yorks.

**WANTED**, qualified Assistant, good appearance (indoors, if single). Usual particulars to J. H. Allan, Pharmaceutical Chemist, Breck Road, Liverpool.

**MANAGER** for Branch, good-class business; outdoors; one seeking a permanency. Full particulars and salary required to W. Sharman, 247 Mare Street, N.E.

**MANAGER**; married; for Branch; house free; good Prescriber and Extractor. Full particulars with photo, Johnson's Drug-stores, Ladypool Road, Birmingham.

**QUALIFIED** Junior required, for good-class Country business; short hours; no Sunday duty. State full particulars and salary required (outdoors), W. Spark, Chemist, Maryport.

**ASSISTANT** wanted, at once, indoors, qualified, with good experience. State age, height, and salary required, Glaisyer, Pharmaceutical Chemist, 53 King's Road, Chelsea, S.W.

**ASSISTANT**, accustomed to a good-class Dispensing business; state salary (indoors) and full particulars, photo if convenient (to be returned). Apply, D. Harries, 100 Queen Street, Cardiff.

**WANTED**, young Man of good business habits for Branch; Prescriber and Extractor essential; state age; good salary and prospects to reliable man of good character. Hulme & Co., Chemists, Nottingham.

**WANTED**, an Assistant about 26, accustomed to a Dispensing, Prescribing, and Light Retail business; salary £50. Address, with particulars and references, to Mr. Woodcock, 75 Shaw Street, Liverpool.

**WANTED**, at once, for a Dispensing business in Brighton, a Junior Assistant or Improver; indoors, with time for study given. State full particulars to "Pharmaceutical Chemist," 52 Preston Street, Brighton.

**WANTED**, a Science Teacher, capable of superintending Minor and Major students in their studies. Send experience and qualifications to "Science," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

**CHEMISTS.**—Wanted, a qualified Assistant to take sole charge; a Partnership if preferred; capital not necessarily required; good references indispensable. Address, John S. Prior, The Limes, Southminster, Essex.

**QUALIFIED** Assistant (outdoors) to manage a high-class Drug-store; must be a smart business man. Apply, stating age, height, references, salary required, and enclose photo to W. T. Hicks, 25 The Parade, Cardiff.

**ASSISTANT**, about 24, for end of April; good Dispenser and used to making Pharmaceutical preparations; liberal salary; indoors. Apply, personally preferred, Frost & Harrison, 3 Eltham Road, Blackheath, S.E.

**QUALIFIED** Assistant wanted for good-class Light Retail and Dispensing; must be reliable Dispenser and well recommended; comfortable permanency; also vacancy for outdoor Apprentices. Gould, Chemist, Teddington.

**HARROGATE.**—For the season (6 months), from May 1; good Junior, for first-class Dispensing business; outdoors. State age, height, salary, &c., with photo, if possible, Kirk, Pharmacie Francaise, Lower Harrogate.

**QUALIFIED** Assistant for first-class Dispensing business. Please state time required for recreation, also height, age, and where last, and salary required, to "Beta," Messrs. Cosway & Rutter, High Road, Kilburn, London, N.W.

**WANTED**, an energetic Assistant, age about 22, to be at Branch or principal establishment; must be well up to his business. Apply, stating age, salary required, references, and photo, to E. C. Ashford, Chemist, Northampton.

**BEWLEY & DRAPER**, Dublin, have a vacancy in their Wholesale Drug department for an experienced and really competent Assistant. Apply, giving full particulars as to previous engagements with copies of testimonials, and stating salary expected.

**FIRST-CLASS** Country Traveller or Agent, to sell, on commission, Seltzogenes and Syphons for a French manufacturer; goods delivered free any railway station in the United Kingdom. State ground cover and references, Paul Mitton, 25 Coleman Street, E.C.

**J. C. POTTAGE**, Homoeopathic Chemist, 117 Princes Street, Edinburgh, is in want of an active Junior Assistant; outdoors; a knowledge of Homoeopathy not essential. State age, height, references, salary, and carte (to be returned).

**JUNIOR** wanted (outdoors), active and quick, for General Mixed business; weekly half-holiday; state age, height, salary, experience, and references, also enclose photo (to be returned). Apply E. B. Morgan, 112 Nehell's Park Road, Birmingham.

**WANTED**, at once, a good Junior accustomed to Dispensing; one just out of his time would suit. Enclose photo and full particulars, to H. J. Broad, 82 Church Street, Stoke Newington, London, N. Applications not answered in 3 days declined.

**JUNIOR** Assistant, indoors, for a Light Retail and Dispensing business; four evenings a week off at 7; three hours duty every other Sunday evening. Apply, with usual particulars, and salary required, to X.Y.Z., c/o Evans, Gadd & Co., Fore Street, Exeter.

**QUALIFIED** Assistant, accustomed to good-class Dispensing and Retail; abstainer preferred; indoors. Please apply, with full particulars, stating when at liberty, salary required, and enclose photo, to J. G. Atkinson, 2 Essex Grove, Upper Norwood, S.E.

**WANTED**, a reliable Junior, about 21, accustomed to good-class Cash business (no heavy trade). Apply, in the first instance, with full particulars as to age, height, experience, salary required (indoors), and enclose photo, to "Pharmacist," 36 Elm Road, Wisbech.

**JUNIOR** Assistant required for good-class Cash trade; outdoors; no Sunday duty; must be competent and a good Salesman. State salary required, particulars of last two appointments, and all customary information, to Timothy White Company, Chemists, Portsmouth.

**ASSISTANT**, about 21 years, with good references; light business; one only kept; state age, height, previous experience, salary (indoors), when disengaged, and, if convenient, enclose carte (to be returned). Alfred Higge, Chemist, Kingston, Surrey, S.W.

**ASSISTANT** in suburban Retail and Dispensing business, immediately; qualified preferred, but not essential; indoors. Apply personally, or if by letter state age, height, experience, salary required, and enclose carte (to be returned), to E. Tebbutt, 316 High Road, Kilburn, N.W.

**WANTED**, a qualified Assistant about 24 years of age with good address, and energetic, for a good-class Dispensing and Retail business. Apply, with full particulars, previous engagements, salary required, &c., enclose photo, Foster Blades, 10 Gloucester Road, South Kensington.

**WANTED**, qualified Senior in a good-class Dispensing and brisk Retail business; must be competent, businesslike, and gentlemanly; good salary to a good man; indoors; enclose photo and give full particulars; applications not answered in three days declined. Stocker, Chemist, Exeter.

**WANTED**, by the middle of May, an Assistant (indoors), about 24; must be quick and good at counter, and have a knowledge of Photographic Materials; good references indispensable. Apply with carte, stating age, height, and salary required, to Pavey & Co., High Street, Ramsgate.

**WANTED**, an experienced qualified Manager for a good Branch; outdoors; age about 30; must be steady and obliging, and be well recommended. Apply, stating usual particulars, and enclose carte if convenient, to "Alpha," c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

**WANTED**, an indoor Assistant, for a Light Retail business; must be an energetic Counterman and accustomed to good-class trade; state age, height, salary required, how long in last situation, also enclose carte (which shall be returned); hours of business moderate. Morgan, Chemist, Southend-on-Sea.

**SENIOR**, qualified, for London drug stores, wanted; aged 25 to 35; indoors and unmarried preferred, but not essential; stores experience necessary. Unqualified Assistant (indoors) also required. State age, experience, salary, when disengaged, &c., to B. L., c/o Bass, Stationer, Acre Lane, Brixton, S.W.

**WANTED**, for a good-class Dispensing business with Light quick Retail, a qualified Assistant, able to manage; with thorough experience in Dispensing; must be active, gentlemanly, and good Counterman. Give full particulars of experience, state salary required (indoors). "Brisk," Evans, Gadd & Co., Exeter.

**REQUIRED**, first week in May, energetic and obliging Assistant, Minor qualification, to develop a business on the Store system; married preferred; live over shop; London suburb; salary and commission. Apply, in first instance, by letter (if from country enclose photo) to X., Brixton Club, Carlton Grove, Brixton, S.W.

**AT** once, a Junior Assistant for a brisk Cash business; indoors; quick and good at Counter; the usual early evening cash week; 14 hour off each morning; half-holiday every month; Sunday duty every fourth Sunday. Please give full particulars of experience, age, references, and salary required, to Blackham, 675 Holloway Road, Upper Holloway, N.

**SANITARY** Inspectorships.—Numerous vacancies; good salaries; permanent posts for reliable men; all wanting appointments as Inspectors or desiring Sanitary Diploma for business purposes should obtain Sanitary Institute (London) Certificate; Postal Course now commencing for London and Provincial Exams.; any man of average ability can pass; have had over 150 successes, and fully half had no previous knowledge of sanitary matters. Apply, Robt. H. Mueser's Sanitary Science Teacher, Sunderland.



**BUSINESSES FOR DISPOSAL—Cont.**

**£250.**—Birmingham.—Genuine ready-money Business for Disposal; capital position in busy thoroughfare; returns £450 increasing; good house, low rent; splendid opening for Dentistry to capable and energetic man; proofs given; illness sole cause of leaving. Teliax." c/o Wyley & Co., Birmingham.

**A LIGHT** Retail, Dispensing and Prescribing business for disposal; situated in main thoroughfare; W. district; about £700 required, or a partnership could be arranged with substantial person giving highest references; qualification not necessary. Apply, B. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TO** be sold for the first reasonable offer, a genuine Pharmacy, in the main road, N.W. district; large house in good condition; side door; pharmacy well stocked and fitted; let off £30 a year; rent £70; no sitting; a rare chance for a man with money. Apply, by letter, to "Cantab," 16 Market Terrace Green Lanes, Wood Green, N.

**£150.**—A newly-established Business about 10 miles West of London; cost £200 to stock and fit up two years ago; owner taking larger concern; rent £25; good house; part could be let off; a man with knowledge of Dentistry would do well. "Mixed," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**EAST LONDON.**—Splendid main-road position; handsome shop; fine front; Retail and Prescribing business; under management and returning now £11 weekly; vendor did £16 weekly; price valuation of stock, &c., about £300; worth attention of any energetic man. "Progress," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**GOOD** Prescribing and Retail; garrison town, Kent; doing £350 at large profits, under female management, only wants qualified man to much increase; valuation required only, as immediate sale is imperative; about £80; a windfall for a beginner; absolutely genuine. "Benefactor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DRUGGISTS' Sundries.**—The Exors. of late George Scriven, Brierley Hill, are prepared to open negotiations for Disposal, as a going concern, of Medical Glass and Sundries Business and Goodwill; established 1886; only about £2,000 capital required. Apply, by letter in first instance, to G. Scriven, Chartered Accountant, Victoria Street, Nottingham.

**£50** cash down and £50 balance by easy instalments, will purchase a good Dispensing, Prescribing, Light Retail Business; now under management; when principal gave full personal attention returns were £12 a week; nice convenient house (could be let off if desired); main thoroughfare. Apply on the premises, Mr. Smith, Chemist, 135 Laurence Hill Bristol.

**VERY** profitable Dispensing Retail and Prescribing Business, with several good proprietaries; returning £12 to £15 weekly; improving neighbourhood; handsome shop; good position; large house; warehouse; owner leaving London sole cause of sale; rent £40; shop well stocked throughout; price only £350. 224/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£900.**—For immediate Disposal, a genuine good-class Business in an attractive neighbourhood; returns £1,000, increasing; net profit nearly £400; no opposition; newly-fitted shop; convenient house; low rent, long lease; 14 miles from London; satisfactory reasons for selling. Apply, M. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**BUSINESSES WANTED.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**WANTED**, a thoroughly reliable Retail and Dispensing Business, in suburbs of London or county town, returning £800 to £1,200; net profit must not be less than £250 yearly; cash ready. Send full particulars in confidence to "Datura," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FOR SALE.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**PROPRIETARY** Medicine for Sale, easily worked with other business; grand chance to acquire old-established and steady-selling article at low price; owner going abroad; principals only. P. M., 216/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FOR** Sale, Loze's A1 Soda-water Machine, with Turnover Filler and Syphon Filler, in good working order; makes splendid water and can fill high-class sodas at about 4d. per dozen; cost £45; will take £20 for immediate cash; this is a bargain; anyone can learn to work it in ten minutes; sole reason for selling, owner has gone in for a larger plant. S. Parker, Morecambe, Lancashire.

**IPSWICH.**—To be sold privately.—Part of a Chemist's stock, comprising 243 glass-stoppered bottles (quart, 1½ pint, pint, and smaller bottles), large quantity of disinfecting powder, and 64 feeding bottles with tubes complete, and a large assortment of brushes and other articles of Chemistry, &c. The above stock can be seen any day, and further particulars may be had of Messrs. Robert Bond & Sons, Old Bank House, Ipswich.

**CHEMIST'S** Stock and Fittings for Sale by private treaty; the subscriber is prepared to treat for the sale of the entire Stock and Fittings in shop, 559 New City Road, Glasgow, belonging to the Trust Estate of W. K. Lyle & Co.; the Stock is fresh and well selected, the Fittings are modern and of the most expensive kind; offers will be taken for the lot or for Stock and Fittings separately. Inventory may be seen and particulars had on application to John Meikle, Accountant, 157A Hope Street, Glasgow.

**PARTNERSHIPS.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**A PARTNER** wanted to extend a very profitable Retail Business where there is good opening for Wholesale; capital required not less than £200. Address, 222/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**GENTLEMAN**, having a flourishing and profitable business returning £2,000, and about to open a branch, is in immediate want of a partner with £1,000 at command. Qualification not absolutely necessary. Answer must contain trade reference, or will not be answered. Address, "Box 6,180," Postal Department, Daily Telegraph, Fleet Street, E.C.

**SITUATIONS OPEN.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**WANTED**, Junior Assistant for Seaside. State age, height, salary, and reference, and photo, to S. Parker, Chemist, Morecambe.

**WANTED**, Junior Assistant. State age, height, reference, and enclose carte, Milton & Son, Pharmaceutical Chemists, 265 High Street, Exeter.

**A QUALIFIED** Assistant; indoors; about 24. State age, height, references, salary required, and enclose photo, to Cooper & Price, Chemists, Wimbledon.

**ASSISTANT**, not under 24. Apply, stating salary required (indoors), with references, &c., to Rastrick & Son, Pharmaceutical Chemists, King's Road, Southsea.

**JUNIOR** Assistant (indoors) for counter and keeping stock. State references, salary required, also send photo if possible (to be returned), R. Lemmon, Hythe, Kent.

**WANTED**, by May 10, an Assistant. Apply, stating age, height, salary, reference, &c., with photo (to be returned), to J. G. Sangster, Pharmaceutical Chemist, Southsea.

**WANTED**, at once, a gentlemanly qualified Assistant, about 25, for a high-class Retail and Dispensing business. Apply, H. S. Cooper, Kingston Hill (personal interview preferred).

**ASSISTANT**; 23 to 30; outdoors; qualification not necessary. State experience, age, height, and salary, with references and photo, to F. Moss, Chemist, Kingswood, near Bristol.

**WANTED**, at once, an Assistant, of gentlemanly appearance and address, accustomed to a good-class Dispensing business. Apply, with full particulars, Grant, Chemist, Clevedon.

**JUNIOR.**—A qualified Assistant as Junior, accustomed to high-class Retail and Dispensing. Apply, giving usual particulars and references, to A. Mander, Belle Vue Pharmacy, Malvern.

**DISPENSER**, immediately, at Holloway's, Chemist, Torquay; qualified; steady and gentlemanly Assistant, for high-class business; also a Junior for branch; send photos and particulars to above.

**DISPENSER** and Bookkeeper wanted immediately; outdoors; hours, 9 A.M. to 9 P.M., excepting two hours for meals. State references, age, and salary required, Dr. Pletts, Ryde, Isle of Wight.

**WINTON'S DRUG CO.**, 75 Westow Hill, Upper Norwood, requires the services of a qualified Dispenser, accustomed to high-class Store business; outdoors. Apply, with full particulars, as above.

**WANTED**, immediately, an indoor Assistant; qualified, and possessing some knowledge of Minor Dental operations preferred. Apply at 53 Great Marylebone Street, Portland Place, London, W.

**JUNIOR** for good-class business; fair Dispenser; time can be given for reading; comfortable home. State salary expected, age, height, and, if convenient, enclose photo, Simpson, Chemist, Maidstone.

**IMMEDIATELY**, an outdoor Assistant, as Counterman in a brisk ready-money business. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

**JUNIOR**; indoors, for the season, for Light Retail and Dispensing business; must be a reliable Dispenser and of gentlemanly appearance. State age, height, salary, and references, J. Sutcliffe, Chemist, Buxton.

**WANTED**, Senior; qualified; accustomed to good quick Counterwork; Tooth-extracting, Prescribing, &c. Apply, "Statin," Messrs Wright, Layman & Umney, 48 Southwark Street, London, S.E.

**WANTED**, Assistant, Minor preferred; about 23; two kept; indoors (bedroom out). Apply personally, or by letter, with photo, giving full particulars, to C. Coutts-Michie, 175 Kentish Town Road, London, N.W.

**ASSISTANT**, about May 1; not under 23; must be well up in Dispensing, a neat writer, and accustomed to first-class business. Enclose photo, with full particulars, to C. Davies, 8 Union Terrace, Notting Hill, London.

**WANTED**, immediately, a competent Assistant; aged about 23; indoors. Apply stating height, references, salary required, and enclose photo, if convenient (to be returned), to Wilson Metcalfe, Pharmaceutical Chemist, Chelmsford.



## SITUATIONS WANTED—Cont.

- IMPROVER**; 18; 2 years' experience. B., Townsend House, Shepton Mallet.
- ASSISTANT**; 24; 8 years' experience. "Chemicus," 37 Vassal Road, Brixton.
- ASSISTANT**; qualified; 22; tall. R., c/o Morris, 4 Braid Place, Edinburgh.
- IN** Manchester as Assistant; good references. Raw, School Green Farm, Thornton, Bradford.
- JUNIOR**; 19; just completed apprenticeship at Brighton. "Gentian," Fleets, Hornby, Lancaster.
- DISPENSER** to Surgeon; thoroughly experienced; married. Wood, Mr. Acfield, Chemist, Surbiton.
- LOCUM** or Manager; Branch or otherwise; qualified; married. Buck, 109 Stuart Street, Luton, Beds.
- LOCUM** or Manager; registered; also Dentist; gentlemanly; experienced. 20 Melbourne Street, Leeds.
- ASSISTANT**; 22; 7 years' experience; outdoors; references. E. C., 38 Crofton Road, Peckham, S.E.
- AS** Junior; 21; disengaged; 5 years' experience; Midlands preferred. "Cocaine," 65 Ashland Road, Sheffield.
- PART-TIME**; first-class experience; references. Apply, "Statim," Trevone, Knollys Road, Streatham, S.W.
- ASSISTANT** (22) as Part-time or Locum: able to take charge, dispense, or prescribe. Yates, High Street, Shaw.
- MANAGER** or Assistant; aged 30; disengaged; in or out doors. D., Mr. Bathe, Chemist, 8 Upton Lane, Forest Gate.
- LOCUM-TENENS**, or Manager, in good business; first-class references. "Alpha," Mr. Ashwell, Bridge Street, Spalding.
- ASSISTANT**; disengaged; all-round experience; 24; qualified; Midlands preferred. "Fauoa," Osborne House, Atherstone.
- MANAGER**, Pharmaceutical Chemist, married, outdoors, for good-class Dispensing business. G., 47 Anerley Road, Norwood, S.E.
- AS** Manager or Senior; outdoors; 30; thoroughly experienced and reliable; knowledge of Photography. "Phenazone," 18 Linaker Street, Southport.
- WANTED**, part-time situation or Dispenser to Medical man; London preferred; tall; experienced; qualified; disengaged. "Statim," 19 Merrick Square, S.E.
- ASSISTANT** (23), Minor qualification, requires outdoor situation, in Light Retail and Dispensing; can Extract; disengaged. J. G., 15 Bates Street, Sheffield.
- ASSISTANT**; unqualified; 21; over four years' experience in high-class Dispensing business in Manchester; references. Powden, Ashfield Road, Altrincham.
- STUDENT** (23) requires part-time with opportunities for attending lectures; experienced; good references; full particulars and terms. F. R. C., 55 Saltoun Road, Brixton.
- AS** Assistant or to Manage a Branch, in Yorkshire or the Midlands, 38, married, abstainer, qualified, seeks a permanency. "Manager," 7 Prince Street, Bridlington Quay.
- TEMPORARY** Manager; 25 years' experience in good-class business; active; and a qualified dentist. 55/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
- DISPENSER**; qualified; 25; tall; abstainer; Hospital or Surgeon's; thoroughly experienced; excellent references. Dodd, Dispenser, General Hospital, Obeltham.
- JUNIOR**, where one is kept; aged 23; 9 years' experience; 5 years' reference; height 5 ft. 8½ in.; London or seaside preferred. R. A., Rose Villa, Albert Road, Henley-on-Thames.
- JUNIOR**; gentlemanly, quick, obliging; 7 years' experience; 22½; 5 ft. 6 in.; good references; good worker; studying Minor; £45, or £85 outdoors. Mack, 16 Cork Street, Bath.
- MANAGER** or Senior; 27; Minor; tall; competent; thorough experience; good Counterman; Photography; well recommended. Hopkinson, Dunkley & Rogers, Tunbridge Wells.
- DISPENSER** to Surgeon, &c.; qualified (Hall); used to retail; abstainer; married; highest reference. "Pharmacist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
- MANAGERSHIP**, permanent or temporary; qualified; disengaged; abstainer; terms moderate; references excellent; suburbs, country, or seaside. Davies, Sparkhill Pharmacy, Birmingham.
- WHOLESALE**; Town Traveller, or position of trust; Wets, Drys; Wholesale and Retail experience; highest references. 224/5, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

- ASSISTANT**; 23; whole or part time. J. Royle, Yew Tree Cottage, Wilmslow, Cheshire.
- LOCUM-TENENS** for coming season; qualified. "Chemist," c/o Mr. Hughes, Chemist, Mold.
- ASSISTANT**; qualified; aged 25; disengaged. H. B., 27 Woodland Road, Upper Norwood, S.E.
- TEMPORARY** or Part-time; 24; good references. "Rhei," 11 Wells Street, Gray's Inn Road, W.C.
- PART-TIME**; London; qualified; near a college preferred. "Salol," 254 Stretford Road, Manchester.
- DISENGAGED**; Locum or Branch Manager; good references. Keating, 42 Trinity Square, Newington.
- ADVERTISER**, disengaged Saturdays and Sundays, seeks employment. "Statim," 28 Newington Causeway.
- ASSISTANT** for few months, or part-time; 9 years' experience; London preferred. F. Smith, Bourne, Lincs.
- ASSISTANT**, Manager; 31; all-round experience; disengaged. "Chemicus," 29 Berwick Street, London, S.W.
- JUNIOR**; 21; good Light Retail and Dispensing business; 4 years' experience. A. Tirrell, Market Square, Hanley.
- JUNIOR**; 20; height, 5 ft. 7 in.; 4½ years' experience; good references. "Chemicus," 21 Mawston Road, Cambridge.
- JUNIOR**; 24; 5 ft. 10 in.; abstainer; Stores or otherwise; London preferred. S. B. J., 11 Chenies Place, St. Pancras, N.W.
- PART-TIME**; qualified; 24; good London experience and references. 224/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.
- DISENGAGED**; aged 27 years; single; accurate Dispenser; excellent references. "Adiendia," 23 Lupton Street, Manningham Lane, Bradford, Yorks.
- STORES** Manager, Traveller, or introduce Proprietaries to Doctors; good experience; smart. "Pharmaceutical Chemist," 11 Holendale Road, West Hampstead.

## MISCELLANEOUS.

- CHICAGO AGENCY**.—Vacancy in a new, first-class Druggist's: very large trade, and best corner in Chicago; will represent an English, French, or German firm, but must be essentially first-class and profitable. Address, Colbert Chemical Company, 171 Dearborn Street, Chicago, Illinois.
- TO** Patent Medicine Manufacturers, &c.—How to Introduce and Create a Sale for such preparations without big expenses. Apply to 222/29, Office of this Journal, who will furnish you with most satisfactory proof. Advertiser is engaged, but would like to increase his income in representing another good firm; articles suitable for Chemists preferred.
- CHEMIST'S SHOP-FITTINGS**.—The entire fittings, in mahogany, comprising plate-glass-fronted counters, dispensing-screen, mirror centre, 12-ft. run of drawers, and 12-ft. range of cupboards, with shelving and cornice over, 4 ft. 6 in. plate-glass wall-case, desk and case, counter-case, 140 shop-rounds. £65 the lot; cost £250. Philip Josephs, 54 Old Street, City Road, London, E.C.
- HAVING** purchased the entire stock of a Chemist's Shop Fitter, consisting of counters, wall, counter, and centre cases, desk and cases, ranges of drawers, dispensing-screens, carboys, specie-jars, shop-rounds, jars, window-enclosures, &c., &c., same will be sold at 33½ per cent. off stock-book prices; 12-ft. run of drawers, glass labels, shelving and cornice over, lockers under, £7 5s. Philip Josephs, 54 Old Street, City Road, London, E.C.
- WALL-FIXTURE**, 12 ft. long by 9 ft. high, containing 60 mahogany drawers, with gold labels and glass knobs, polished-pine lockers below and shelving above, surmounted by neat cornice, £16; 5-ft. mahogany bent-glass counter-case, velvet lined, with display back and serving-tray, £5; high-class dispensing-screen, mahogany and plate-glass, bevelled-edge mirrors, highly ornamental, only £9; estimates free. Matthews, 14 Manchester Street, Liverpool.
- CHEMISTS**.—Twelve-foot range of sixty mahogany-fronted drawers, glass knobs, glass labels, own lettering, £7 5s.; if lockers, shelves, cornice, complete, £12 5s. Six-foot bent plate-glass counter-case, mirror backs, display shelves, &c., 92s. 6d. Handsome mahogany 6-ft. dispensing-screen, mirror centre, show case each side, mounted with carved work and marble slab, £6 5s. Upright cases, with mahogany desks at back, 45s. Pink ointment jars, shop rounds. Estimates free. Mills, shop-fitter, show-case manufacturers, 203 City Road, London, E.C.
- TO BE SOLD IMMEDIATELY**.—The complete fittings of 6 high-class Chemist Shops, comprising ranges of solid mahogany-fronted drawers, fitted with crystal cut knobs and bevelled edge labels, the bottom part fitted with panelled lockers and the above with mahogany-fronted shelving and cornice complete; 6 Spanish mahogany dispensing screens with bevelled and embossed mirror in centre, some have sponge cases at bottom; a large assortment of mahogany and plate-glass fronted counters, fitted with numerous drawers at back; bent-glass counter cases, wall cases, sponge cases, desks, window enclosures, and every fitting appertaining to the trade. We have a large assortment of new fittings in stock, all the latest designs. We fit up shops complete from £50. Most practical men sent to all parts of the country. Write for references, Edwards & Co., Chemist Fitters, 19 and 20 Old Haymarket, Liverpool.